

# Keep the Pace & Coverage!

Raddrehzahlsensoren | Wheel Speed Sensors



2020 CATALOG

**BREMI**  
PREMIUM CAR SYSTEMS



## **ABS Wheel Speed Sensors**

The speed sensors at each wheel allow the anti-lock braking system to monitor wheel speed independently. The ABS computer utilizes this information to improve vehicle control under heavy braking especially on loose or slick surfaces. The signals from the systems speed sensors are compared with one another and if one sensor is out of specification, the system can malfunction.

### **Indication of Failure**

- Illumination of ABS lamp
- Storing of an error code
- Locking of wheels during braking
- Failure of other related systems

### **Common Causes of Failure**

- Mechanical damage to the wheel sensor or cables
- Excessive resistance in the wiring caused by water intrusion, corrosion, dirt and cracks in the wire harness.
- Weak Signal caused by improper gap between the sensor and tone ring along with looseness in the wheel bearing. The Sensors are magnetic and will also attract metallic debris from brake dust, which can adversely affect the signal.
- Corrosion of Tone Ring: Road Salt may get into the hub assembly at the sensor hole and degrade the tone ring

### **Why choose Bremi Germany Wheel Speed Sensors?**

Bremi develops and produces every component of its Wheel Speed Sensors in their own factories. Their acquisition of "Streicher Plast" in Germany has allowed them to become a leader in Injection molded parts for electronics and microelectronics. All Bremi ABS Sensors use the same material as O.E. along with fit and function. The final completion and 100% testing of Sensors is done in Germany. Each Sensor is subjected to an electrical test which compares the sensor data to the OE profile to ensure that it is within optimal range. On top of that, Bremi performs a full thermal shock test that covers a total of 60 cycles to ensure performance under all environmental conditions.

All Bremi plants as well as all their production process are ISO 9001, TS 16949 certified along with an A-Rating from VW.

## TESTING OF BREMI WHEEL SPEED SENSORS

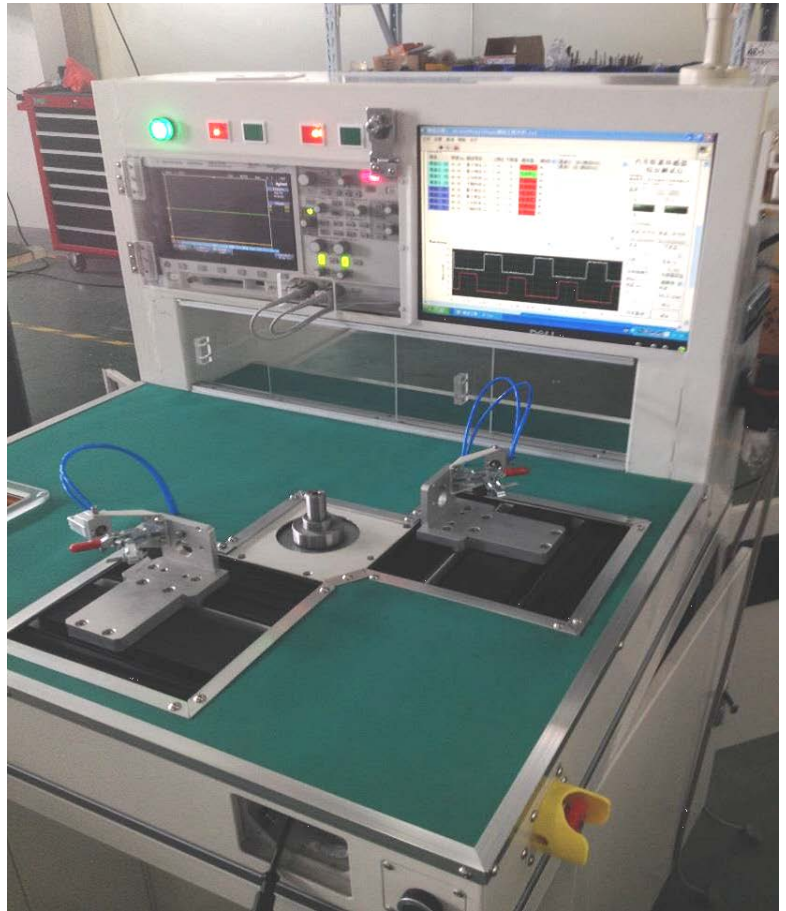
### Electrical test

Sensors are subjected to an **electrical test** both *before* and *after* the thermal shock test.

The illustration on the right shows the apparatus used to test the wheel speed sensors.

The following values are recorded and compared to the OE profile to ensure that it is within the optimal range.

- Capacity utilization in %
- Load resistance in  $\Omega$
- Frequency in Hz
- VPP ("Volts Peak to Peak")



### Thermal shock

Within the context of product qualification, all newly produced wheel speed sensors are subjected to defined **thermal shock cycles**.

Extreme temperatures act on the parts in a special chamber:

- $-40^{\circ}\text{C}$  for a period of 45 min
- $+130^{\circ}\text{C}$  for a period of 30 min

The change in temperature takes about 10 seconds.

A complete test covers a total of 60 cycles.



## **Table of Contents**

|             |                             |                   |
|-------------|-----------------------------|-------------------|
| <b>I.</b>   | <b>APPLICATIONS</b>         | <b>1 thru 31</b>  |
| <b>II.</b>  | <b>ILLUSTRATION GUIDE</b>   | <b>32 thru 40</b> |
| <b>III.</b> | <b>CROSS REFERENCE LIST</b> | <b>41 thru 44</b> |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## AUDI

### A3

|    |                 |                          |       |       |
|----|-----------------|--------------------------|-------|-------|
| L4 | 1.4 LTR.        | REAR                     | 15-18 | 51351 |
| L4 | 1.8 LTR.        | REAR                     | 15-18 | 51351 |
| L4 | 2.0 LTR.        | REAR                     | 17-18 | 51351 |
| L4 | 2.0 LTR.        | FRONT LEFT               | 06-13 | 50310 |
| L4 | 2.0 LTR.        | FRONT RIGHT              | 06-13 | 50318 |
| L4 | 2.0 LTR.        | REAR LEFT                | 06-13 | 50293 |
| L4 | 2.0 LTR.        | REAR RIGHT               | 06-13 | 50307 |
| L4 | 2.0 LTR. DIESEL | REAR                     | 15-16 | 51351 |
| V6 | 3.2 LTR.        | FRONT LEFT & REAR LEFT   | 08-09 | 50310 |
| V6 | 3.2 LTR.        | FRONT RIGHT & REAR RIGHT | 08-09 | 50318 |

### A3 QUATTRO

|    |          |                          |       |       |
|----|----------|--------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT LEFT & REAR LEFT   | 06-13 | 50310 |
| L4 | 2.0 LTR. | FRONT RIGHT & REAR RIGHT | 06-13 | 50318 |

### A3 SPORTBACK E-TRON

|    |          |      |       |       |
|----|----------|------|-------|-------|
| L4 | 1.4 LTR. | REAR | 16-18 | 51351 |
|----|----------|------|-------|-------|

### A4

|    |                |  |       |       |
|----|----------------|--|-------|-------|
| L4 | 1.8 LTR.       | FRONT                                      | 2001  | 50325 |
| L4 | 1.8 LTR.       | FRONT                                      | 2000  | 50323 |
| L4 | 1.8 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 02-06 | 50620 |
| L4 | 1.8 LTR. TURBO | FRONT                                      | 04-06 | 50314 |
| L4 | 1.8 LTR. TURBO | FRONT, Up to 8E-3-500 000                  | 02-03 | 50302 |
| L4 | 2.0 LTR.       | FRONT                                      | 05-09 | 50314 |
| L4 | 2.0 LTR. TURBO | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 05-08 | 50620 |
| L4 | 2.0 LTR. TURBO | FRONT LEFT & REAR RIGHT                    | 09-15 | 50304 |
| L4 | 2.0 LTR. TURBO | FRONT RIGHT & REAR LEFT                    | 09-15 | 50305 |
| V6 | 3.0 LTR.       | FRONT                                      | 04-05 | 50314 |
| V6 | 3.0 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 02-05 | 50620 |
| V6 | 3.0 LTR.       | FRONT, Up to 8E-3-500 000                  | 02-03 | 50302 |
| V6 | 3.2 LTR.       | FRONT LEFT & REAR RIGHT                    | 2009  | 50304 |
| V6 | 3.2 LTR.       | FRONT RIGHT & REAR LEFT                    | 2009  | 50305 |
| V6 | 3.2 LTR.       | FRONT, Up to 8E-3-500 000                  | 2005  | 50302 |
| V6 | 3.2 LTR.       | FRONT                                      | 06-08 | 50314 |
| V6 | 3.2 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 06-08 | 50620 |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## A4 QUATTRO

|    |                |  |       |       |
|----|----------------|--|-------|-------|
| L4 | 1.8 LTR.       | FRONT                                      | 97-99 | 50323 |
| L4 | 1.8 LTR.       | FRONT                                      | 04-05 | 50314 |
| L4 | 1.8 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 02-05 | 50620 |
| L4 | 1.8 LTR.       | FRONT                                      | 00-01 | 50325 |
| L4 | 1.8 LTR. TURBO | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 99-02 | 50653 |
| L4 | 1.8 LTR. TURBO | REAR, From chassis # 8D-W-280001           | 1998  | 50653 |
| L4 | 2.0 LTR.       | FRONT                                      | 05-09 | 50314 |
| L4 | 2.0 LTR. TURBO | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 05-09 | 50620 |
| L6 | 2.8 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 99-01 | 50653 |
| V6 | 2.8 LTR.       | FRONT                                      | 96-99 | 50323 |
| L6 | 2.8 LTR.       | REAR, From chassis # 8D-W-280001           | 1998  | 50653 |
| V6 | 2.8 LTR.       | FRONT (models with BOLT-ON TYPE sensors)   | 00-01 | 50322 |
| V6 | 2.8 LTR.       | FRONT (models with PRESS-IN TYPE sensors)  | 00-01 | 50325 |
| V6 | 3.0 LTR.       | FRONT                                      | 04-06 | 50314 |
| V6 | 3.0 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 02-06 | 50620 |
| V6 | 3.2 LTR.       | FRONT                                      | 05-09 | 50314 |
| V6 | 3.2 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 05-09 | 50620 |

## A5

|    |                |                         |       |       |
|----|----------------|-------------------------|-------|-------|
| L4 | 2.0 LTR. TURBO | FRONT LEFT & REAR RIGHT | 10-16 | 50304 |
| L4 | 2.0 LTR. TURBO | FRONT RIGHT & REAR LEFT | 10-16 | 50305 |
| V6 | 3.2 LTR.       | FRONT LEFT & REAR RIGHT | 08-10 | 50304 |
| V6 | 3.2 LTR.       | FRONT RIGHT & REAR LEFT | 08-10 | 50305 |

## A6

|    |                |                         |       |       |
|----|----------------|-------------------------|-------|-------|
| L4 | 2.0 LTR. TURBO | FRONT LEFT & REAR RIGHT | 12-16 | 50304 |
| L4 | 2.0 LTR. TURBO | FRONT RIGHT & REAR LEFT | 12-16 | 50305 |
| V6 | 3.0 LTR.       | FRONT                   | 2002  | 50322 |
| V6 | 3.0 LTR.       | FRONT LEFT & REAR RIGHT | 09-16 | 50304 |
| V6 | 3.0 LTR.       | FRONT RIGHT & REAR LEFT | 09-16 | 50305 |
| V6 | 3.2 LTR.       | FRONT LEFT & REAR RIGHT | 05-11 | 50304 |
| V6 | 3.2 LTR.       | FRONT RIGHT & REAR LEFT | 05-11 | 50305 |
| V8 | 4.2 LTR.       | FRONT LEFT & REAR RIGHT | 05-16 | 50304 |
| V8 | 4.2 LTR.       | FRONT RIGHT & REAR LEFT | 05-16 | 50305 |

## A6 QUATTRO

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| V6 | 2.7 LTR. | FRONT | 2002  | 50322 |
| V6 | 3.0 LTR. | FRONT | 2002  | 50322 |
| V8 | 4.2 LTR. | FRONT | 00-02 | 50322 |

## A7 QUATTRO

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| V6 | 3.0 LTR. | FRONT LEFT & REAR RIGHT | 12-16 | 50304 |
| V6 | 3.0 LTR. | FRONT RIGHT & REAR LEFT | 12-16 | 50305 |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

### A8

|     |          |                         |       |       |
|-----|----------|-------------------------|-------|-------|
| V6  | 3.0 LTR. | FRONT LEFT & REAR RIGHT | 13-16 | 50304 |
| V6  | 3.0 LTR. | FRONT RIGHT & REAR LEFT | 13-16 | 50305 |
| V8  | 4.0 LTR. | FRONT LEFT & REAR RIGHT | 13-16 | 50304 |
| V8  | 4.0 LTR. | FRONT RIGHT & REAR LEFT | 13-16 | 50305 |
| V8  | 4.2 LTR. | FRONT LEFT & REAR RIGHT | 05-12 | 50304 |
| V8  | 4.2 LTR. | FRONT RIGHT & REAR LEFT | 05-12 | 50305 |
| W12 | 6.0 LTR. | FRONT LEFT & REAR RIGHT | 05-09 | 50304 |
| W12 | 6.0 LTR. | FRONT RIGHT & REAR LEFT | 05-09 | 50305 |
| W12 | 6.3 LTR. | FRONT LEFT & REAR RIGHT | 12-16 | 50304 |
| W12 | 6.3 LTR. | FRONT RIGHT & REAR LEFT | 12-16 | 50305 |

### Q3

|    |                |            |       |       |
|----|----------------|------------|-------|-------|
| L4 | 2.0 LTR. TURBO | REAR RIGHT | 15-16 | 50295 |
|----|----------------|------------|-------|-------|

### Q3 QUATTRO

|    |                |            |       |       |
|----|----------------|------------|-------|-------|
| L4 | 2.0 LTR. TURBO | REAR RIGHT | 15-16 | 50295 |
|----|----------------|------------|-------|-------|

### Q5

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT LEFT & REAR RIGHT | 11-16 | 50304 |
| L4 | 2.0 LTR. | FRONT RIGHT & REAR LEFT | 11-16 | 50305 |
| V6 | 3.0 LTR. | FRONT LEFT & REAR RIGHT | 13-16 | 50304 |
| V6 | 3.0 LTR. | FRONT RIGHT & REAR LEFT | 13-16 | 50305 |
| V6 | 3.2 LTR. | FRONT LEFT & REAR RIGHT | 09-12 | 50304 |
| V6 | 3.2 LTR. | FRONT RIGHT & REAR LEFT | 09-12 | 50305 |

### Q7

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| V6 | 3.0 LTR. | REAR LEFT  | 11-15 | 50311 |
| V6 | 3.0 LTR. | REAR RIGHT | 09-15 | 50313 |
| V6 | 3.6 LTR. | REAR LEFT  | 07-10 | 50311 |
| V6 | 3.6 LTR. | REAR RIGHT | 07-10 | 50313 |
| V8 | 4.2 LTR. | REAR LEFT  | 07-10 | 50311 |
| V8 | 4.2 LTR. | REAR RIGHT | 07-10 | 50313 |

### R8

|     |          |                         |       |       |
|-----|----------|-------------------------|-------|-------|
| V8  | 4.2 LTR. | FRONT LEFT & REAR RIGHT | 08-15 | 50304 |
| V8  | 4.2 LTR. | FRONT RIGHT & REAR LEFT | 08-15 | 50305 |
| V10 | 5.2 LTR. | FRONT LEFT & REAR RIGHT | 10-15 | 50304 |
| V10 | 5.2 LTR. | FRONT RIGHT & REAR LEFT | 10-15 | 50305 |

### RS4

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| V8 | 4.2 LTR. | FRONT      | 07-08 | 50314 |
| V8 | 4.2 LTR. | REAR RIGHT | 07-08 | 50620 |

### RS5

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| V8 | 4.2 LTR. | FRONT LEFT & REAR RIGHT | 13-15 | 50304 |
| V8 | 4.2 LTR. | FRONT RIGHT & REAR LEFT | 13-15 | 50305 |

### RS7

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| V8 | 4.0 LTR. | FRONT LEFT & REAR RIGHT | 14-16 | 50304 |
| V8 | 4.0 LTR. | FRONT RIGHT & REAR LEFT | 14-16 | 50305 |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

### S4

|    |                |  |       |       |
|----|----------------|--|-------|-------|
| V6 | 2.7 LTR. TURBO | FRONT, Up to 8E-3-500 000                  | 2002  | 50302 |
| V6 | 2.7 LTR. TURBO | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 00-02 | 50653 |
| V6 | 2.7 LTR. TURBO | FRONT (models with BOLT-ON TYPE sensors)   | 00-01 | 50322 |
| V6 | 2.7 LTR. TURBO | FRONT (models with PRESS-IN TYPE sensors)  | 00-01 | 50325 |
| V6 | 3.0 LTR.       | FRONT LEFT & REAR RIGHT                    | 10-15 | 50304 |
| V6 | 3.0 LTR.       | FRONT RIGHT & REAR LEFT                    | 10-15 | 50305 |
| V8 | 4.2 LTR.       | FRONT                                      | 04-09 | 50314 |
| V8 | 4.2 LTR.       | REAR (W/O HID LIGHTS), REAR RIGHT (W/ HID) | 04-09 | 50620 |

### S5

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| V6 | 3.0 LTR. | FRONT LEFT & REAR RIGHT | 10-16 | 50304 |
| V6 | 3.0 LTR. | FRONT RIGHT & REAR LEFT | 10-16 | 50305 |
| V8 | 4.2 LTR. | FRONT LEFT & REAR RIGHT | 08-12 | 50304 |
| V8 | 4.2 LTR. | FRONT RIGHT & REAR LEFT | 08-12 | 50305 |

### S6

|     |          |                         |       |       |
|-----|----------|-------------------------|-------|-------|
| V8  | 4.0 LTR. | FRONT LEFT & REAR RIGHT | 13-16 | 50304 |
| V8  | 4.0 LTR. | FRONT RIGHT & REAR LEFT | 13-16 | 50305 |
| V8  | 4.2 LTR. | FRONT                   | 2002  | 50322 |
| V10 | 5.2 LTR. | FRONT LEFT & REAR RIGHT | 07-11 | 50304 |
| V10 | 5.2 LTR. | FRONT RIGHT & REAR LEFT | 07-11 | 50305 |

### S7

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| V8 | 4.0 LTR. | FRONT LEFT & REAR RIGHT | 13-16 | 50304 |
| V8 | 4.0 LTR. | FRONT RIGHT & REAR LEFT | 13-16 | 50305 |

### S8

|     |          |                         |       |       |
|-----|----------|-------------------------|-------|-------|
| V8  | 4.0 LTR. | FRONT LEFT & REAR RIGHT | 13-16 | 50304 |
| V8  | 4.0 LTR. | FRONT RIGHT & REAR LEFT | 13-16 | 50305 |
| V10 | 5.2 LTR. | FRONT LEFT & REAR RIGHT | 07-09 | 50304 |
| V10 | 5.2 LTR. | FRONT RIGHT & REAR LEFT | 07-09 | 50305 |

### SQ5

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| V6 | 3.0 LTR. | FRONT LEFT & REAR RIGHT | 14-16 | 50304 |
| V6 | 3.0 LTR. | FRONT RIGHT & REAR LEFT | 14-16 | 50305 |

### TT

|    |                |             |       |       |
|----|----------------|-------------|-------|-------|
| L4 | 1.8 LTR. TURBO | FRONT LEFT  | 00-06 | 50315 |
| L4 | 1.8 LTR. TURBO | FRONT RIGHT | 00-06 | 50316 |
| L4 | 1.8 LTR. TURBO | REAR        | 00-06 | 50309 |
| L4 | 2.0 LTR.       | FRONT LEFT  | 08-09 | 50310 |
| L4 | 2.0 LTR.       | FRONT RIGHT | 08-09 | 50318 |
| L4 | 2.0 LTR. TURBO | REAR LEFT   | 08-09 | 50293 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT  | 08-09 | 50307 |



| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## **TT QUATTRO**

|    |                |                          |       |       |
|----|----------------|--------------------------|-------|-------|
| L4 | 1.8 LTR. TURBO | FRONT LEFT               | 00-06 | 50315 |
| L4 | 1.8 LTR. TURBO | FRONT RIGHT              | 00-06 | 50316 |
| L4 | 1.8 LTR. TURBO | REAR                     | 00-06 | 50656 |
| L4 | 2.0 LTR.       | FRONT LEFT & REAR LEFT   | 09-15 | 50310 |
| L4 | 2.0 LTR.       | FRONT RIGHT & REAR RIGHT | 09-15 | 50318 |
| V6 | 3.2 LTR.       | FRONT LEFT & REAR LEFT   | 08-09 | 50310 |
| V6 | 3.2 LTR.       | FRONT RIGHT & REAR RIGHT | 08-09 | 50318 |
| V6 | 3.2 LTR.       | FRONT LEFT               | 04-06 | 50315 |
| V6 | 3.2 LTR.       | FRONT RIGHT              | 04-06 | 50316 |
| V6 | 3.2 LTR.       | REAR                     | 04-06 | 50656 |

## **BMW**

### **1 SERIES M**

|    |          |       |      |       |
|----|----------|-------|------|-------|
| L6 | 3.0 LTR. | FRONT | 2011 | 51354 |
| L6 | 3.0 LTR. | REAR  | 2011 | 50349 |

### **128i**

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| L6 | 3.0 LTR. | FRONT | 08-13 | 50334 |
| L6 | 3.0 LTR. | REAR  | 08-13 | 50346 |

### **135i**

|    |                |       |       |       |
|----|----------------|-------|-------|-------|
| L6 | 3.0 LTR.       | FRONT | 08-13 | 50334 |
| L6 | 3.0 LTR. TURBO | REAR  | 08-13 | 50349 |

### **228i**

|    |          |                                       |       |       |
|----|----------|---------------------------------------|-------|-------|
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control)  | 15-16 | 51515 |
| L4 | 2.0 LTR. | FRONT (excl. Adaptive Cruise Control) | 14-16 | 51514 |

### **228i xDrive**

|    |          |                                 |       |       |
|----|----------|---------------------------------|-------|-------|
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)  | 2015  | 51372 |
| L4 | 2.0 LTR. | FRONT (Adaptive Cruise Control) | 15-16 | 51563 |

### **230i**

|    |          |                                       |       |       |
|----|----------|---------------------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT (excl. Adaptive Cruise Control) | 17-19 | 51514 |
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)        | 17-19 | 51372 |
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515 |

### **230i xDrive**

|    |          |                                      |       |       |
|----|----------|--------------------------------------|-------|-------|
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)       | 17-19 | 51372 |
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control) | 17-19 | 51515 |
| L4 | 2.0 LTR. | FRONT (Adaptive Cruise Control)      | 17-18 | 51563 |

### **240i**

|    |          |                                       |       |       |
|----|----------|---------------------------------------|-------|-------|
| L6 | 3.0 LTR. | FRONT (excl. Adaptive Cruise Control) | 17-19 | 51514 |
|----|----------|---------------------------------------|-------|-------|

### **318i**

|    |               |       |       |       |
|----|---------------|-------|-------|-------|
| L4 | 1.8 LTR.      | REAR  | 92-95 | 50212 |
| L4 | 1.8, 1.9 LTR. | FRONT | 92-98 | 50204 |
| L4 | 1.9 LTR.      | REAR  | 96-98 | 50212 |

### **318iS**

|    |               |       |       |       |
|----|---------------|-------|-------|-------|
| L4 | 1.8 LTR.      | REAR  | 92-95 | 50212 |
| L4 | 1.8, 1.9 LTR. | FRONT | 92-97 | 50204 |
| L4 | 1.9 LTR.      | REAR  | 96-97 | 50212 |

| CYL                | APPLICATION    | NOTES                                     | YEAR  | KARLYN # |
|--------------------|----------------|---|-------|----------|
| <b>318Ti</b>       |                |   |       |          |
| L4                 | 1.8, 1.9 LTR.  | FRONT                                     | 95-98 | 50204    |
| <b>320i</b>        |                |   |       |          |
| L4                 | 2.0 LTR.       | FRONT (excl. Adaptive Cruise Control)     | 13-18 | 51514    |
| L4                 | 2.0 LTR.       | REAR (Adaptive Cruise Control)            | 13-18 | 51372    |
| L4                 | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)      | 13-18 | 51515    |
| L4                 | 2.0 LTR. TURBO | REAR (Adaptive Cruise Control)            | 13-16 | 51372    |
| L4                 | 2.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)      | 12-16 | 51515    |
| <b>320i xDrive</b> |                |   |       |          |
| L4                 | 2.0 LTR.       | FRONT (Adaptive Cruise Control)           | 13-18 | 51563    |
| L4                 | 2.0 LTR.       | REAR (Adaptive Cruise Control)            | 13-18 | 51372    |
| L4                 | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)      | 13-18 | 51515    |
| <b>323Ci</b>       |                |   |       |          |
| L6                 | 2.5 LTR.       | FRONT                                     | 2000  | 50205    |
| L6                 | 2.5 LTR.       | REAR                                      | 2000  | 50206    |
| <b>323i</b>        |                |   |       |          |
| L6                 | 2.5 LTR.       | FRONT (w/o DSC)                           | 99-00 | 50205    |
| L6                 | 2.5 LTR.       | REAR, Thru 08/00 w/DSC & Thru 08/01 w/ASC | 99-00 | 50206    |
| L6                 | 2.5 LTR.       | FRONT                                     | 98-99 | 50204    |
| L6                 | 2.5 LTR.       | REAR with/DSC from 09/00                  | 2000  | 50203    |
| L6                 | 2.5 LTR.       | FRONT                                     | 06-11 | 50334    |
| L6                 | 2.5 LTR.       | REAR                                      | 06-11 | 50346    |
| <b>323iS</b>       |                |   |       |          |
| L6                 | 2.5 LTR.       | FRONT                                     | 98-99 | 50204    |
| L6                 | 2.5 LTR.       | REAR                                      | 98-99 | 50212    |
| <b>325Ci</b>       |                |   |       |          |
| L6                 | 2.5 LTR.       | FRONT LEFT                                | 01-06 | 50201    |
| L6                 | 2.5 LTR.       | FRONT RIGHT                               | 01-06 | 50202    |
| L6                 | 2.5 LTR.       | REAR                                      | 01-06 | 50203    |
| <b>325i</b>        |                |   |       |          |
| L6                 | 2.5 LTR.       | FRONT                                     | 92-95 | 50204    |
| L6                 | 2.5 LTR.       | REAR                                      | 92-95 | 50212    |
| L6                 | 2.5 LTR.       | FRONT                                     | 2001  | 50205    |
| L6                 | 2.5 LTR.       | REAR, Thru 08/00 with DSC                 | 2001  | 50206    |
| L6                 | 2.5 LTR.       | FRONT LEFT                                | 02-05 | 50201    |
| L6                 | 2.5 LTR.       | FRONT RIGHT                               | 02-05 | 50202    |
| L6                 | 2.5 LTR.       | REAR, From 09/00 w/DSC & From 09/01 w/ASC | 01-05 | 50203    |
| L6                 | 3.0 LTR.       | FRONT                                     | 2006  | 50334    |
| L6                 | 3.0 LTR.       | REAR                                      | 2006  | 50346    |
| <b>325iS</b>       |                |   |       |          |
| L6                 | 2.5 LTR.       | REAR                                      | 92-95 | 50212    |
| L6                 | 2.5 LTR.       | FRONT                                     | 87-95 | 50204    |
| <b>325xi</b>       |                |   |       |          |
| L6                 | 2.5 LTR.       | FRONT                                     | 01-05 | 50355    |
| L6                 | 3.0 LTR.       | FRONT                                     | 2006  | 51511    |
| L6                 | 3.0 LTR.       | REAR                                      | 2006  | 51512    |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

### 328Ci

|    |          |       |      |       |
|----|----------|-------|------|-------|
| L6 | 2.8 LTR. | FRONT | 2000 | 50205 |
| L6 | 2.8 LTR. | REAR  | 2000 | 50206 |

### 328d

|    |                 |                                       |       |       |
|----|-----------------|---------------------------------------|-------|-------|
| L4 | 2.0 LTR. DIESEL | FRONT (excl. Adaptive Cruise Control) | 14-18 | 51514 |
| L4 | 2.0 LTR. DIESEL | REAR (Adaptive Cruise Control)        | 14-18 | 51372 |
| L4 | 2.0 LTR. DIESEL | REAR (excl. Adaptive Cruise Control)  | 14-18 | 51515 |

### 328d xDrive

|    |                 |                                      |       |       |
|----|-----------------|--------------------------------------|-------|-------|
| L4 | 2.0 LTR. DIESEL | FRONT (Adaptive Cruise Control)      | 14-18 | 51563 |
| L4 | 2.0 LTR. DIESEL | REAR (Adaptive Cruise Control)       | 14-18 | 51372 |
| L4 | 2.0 LTR. DIESEL | REAR (excl. Adaptive Cruise Control) | 14-18 | 51515 |

### 328i

|    |                |                                       |       |       |
|----|----------------|---------------------------------------|-------|-------|
| L4 | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 14-16 | 51372 |
| L4 | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 14-16 | 51515 |
| L4 | 2.0 LTR.       | FRONT (excl. Adaptive Cruise Control) | 12-16 | 51514 |
| L4 | 2.0 LTR. TURBO | REAR (Adaptive Cruise Control)        | 12-15 | 51372 |
| L4 | 2.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)  | 12-15 | 51515 |
| L6 | 2.8 LTR.       | FRONT                                 | 99-00 | 50205 |
| L6 | 2.8 LTR.       | REAR                                  | 99-00 | 50206 |
| L6 | 2.8 LTR.       | FRONT                                 | 96-98 | 50204 |
| L6 | 2.8 LTR.       | REAR                                  | 96-98 | 50212 |
| L6 | 3.0 LTR.       | FRONT                                 | 07-13 | 50334 |
| L6 | 3.0 LTR.       | REAR                                  | 07-13 | 50346 |

### 328i GT xDrive

|    |          |                                      |       |       |
|----|----------|--------------------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT (Adaptive Cruise Control)      | 14-16 | 51563 |
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control) | 14-16 | 51515 |
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)       | 14-15 | 51372 |

### 328i xDrive

|    |                |                                      |       |       |
|----|----------------|--------------------------------------|-------|-------|
| L4 | 2.0 LTR.       | REAR (Adaptive Cruise Control)       | 14-16 | 51372 |
| L4 | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control) | 14-16 | 51515 |
| L4 | 2.0 LTR.       | FRONT (Adaptive Cruise Control)      | 13-16 | 51563 |
| L4 | 2.0 LTR. TURBO | REAR (Adaptive Cruise Control)       | 2013  | 51372 |
| L4 | 2.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control) | 2013  | 51515 |
| L6 | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control) | 2013  | 51515 |
| L6 | 3.0 LTR.       | FRONT                                | 09-13 | 51511 |
| L6 | 3.0 LTR.       | REAR                                 | 09-13 | 51512 |

### 328iS

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| L6 | 2.8 LTR. | FRONT | 96-99 | 50204 |
| L6 | 2.8 LTR. | REAR  | 96-99 | 50212 |

### 328xi

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| L6 | 3.0 LTR. | FRONT | 07-08 | 51511 |
| L6 | 3.0 LTR. | REAR  | 07-08 | 51512 |

### 330Ci

|    |          |                           |       |       |
|----|----------|---------------------------|-------|-------|
| L6 | 3.0 LTR. | FRONT LEFT                | 01-06 | 50201 |
| L6 | 3.0 LTR. | FRONT RIGHT               | 01-06 | 50202 |
| L6 | 3.0 LTR. | REAR (with AUTO TRANS.)   | 01-06 | 50203 |
| L6 | 3.0 LTR. | REAR (with MANUAL TRANS.) | 01-06 | 50344 |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

### 330e

|    |          |                                       |       |       |
|----|----------|---------------------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT (excl. Adaptive Cruise Control) | 16-18 | 51514 |
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)        | 16-18 | 51372 |
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control)  | 16-18 | 51515 |

### 330i

|    |          |                                       |       |       |
|----|----------|---------------------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT (excl. Adaptive Cruise Control) | 17-18 | 51514 |
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)        | 17-18 | 51372 |
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control)  | 17-18 | 51515 |
| L6 | 3.0 LTR. | FRONT                                 | 2006  | 50334 |
| L6 | 3.0 LTR. | REAR                                  | 2006  | 50349 |
| L6 | 3.0 LTR. | FRONT                                 | 2001  | 50205 |
| L6 | 3.0 LTR. | FRONT LEFT                            | 02-05 | 50201 |
| L6 | 3.0 LTR. | FRONT RIGHT                           | 02-05 | 50202 |
| L6 | 3.0 LTR. | REAR (with AUTO TRANS.)               | 01-05 | 50203 |
| L6 | 3.0 LTR. | REAR (with MANUAL TRANS.)             | 01-05 | 50344 |

### 330i GT xDrive

|    |          |                                      |       |       |
|----|----------|--------------------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT (Adaptive Cruise Control)      | 17-19 | 51563 |
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)       | 17-19 | 51372 |
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control) | 17-19 | 51515 |

### 330i xDrive

|    |          |                                      |       |       |
|----|----------|--------------------------------------|-------|-------|
| L4 | 2.0 LTR. | FRONT (Adaptive Cruise Control)      | 17-19 | 51563 |
| L4 | 2.0 LTR. | REAR (Adaptive Cruise Control)       | 17-19 | 51372 |
| L4 | 2.0 LTR. | REAR (excl. Adaptive Cruise Control) | 17-19 | 51515 |

### 330xi

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| L6 | 3.0 LTR. | FRONT | 2006  | 51511 |
| L6 | 3.0 LTR. | REAR  | 2006  | 51512 |
| L6 | 3.0 LTR. | FRONT | 01-05 | 50355 |

### 335d

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| L6 | 3.0 LTR. | FRONT | 09-11 | 50334 |
| L6 | 3.0 LTR. | REAR  | 09-11 | 50349 |

### 335i

|    |                |                                       |       |       |
|----|----------------|---------------------------------------|-------|-------|
| L6 | 3.0 LTR.       | FRONT (excl. Adaptive Cruise Control) | 12-15 | 51514 |
| L6 | 3.0 LTR.       | FRONT                                 | 07-13 | 50334 |
| L6 | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)  | 13-15 | 51515 |
| L6 | 3.0 LTR. TURBO | REAR (Adaptive Cruise Control)        | 12-15 | 51372 |
| L6 | 3.0 LTR. TURBO | REAR                                  | 07-13 | 50349 |

### 335i GT xDrive

|    |                |                                      |       |       |
|----|----------------|--------------------------------------|-------|-------|
| L6 | 3.0 LTR.       | FRONT (Adaptive Cruise Control)      | 14-16 | 51563 |
| L6 | 3.0 LTR.       | REAR (Adaptive Cruise Control)       | 14-15 | 51372 |
| L6 | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control) | 14-16 | 51515 |

### 335i xDrive

|    |                |                                      |       |       |
|----|----------------|--------------------------------------|-------|-------|
| L6 | 3.0 LTR.       | FRONT                                | 2009  | 50334 |
| L6 | 3.0 LTR.       | FRONT (Adaptive Cruise Control)      | 13-15 | 51563 |
| L6 | 3.0 LTR.       | REAR (Adaptive Cruise Control)       | 13-15 | 51372 |
| L6 | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control) | 13-15 | 51515 |
| L6 | 3.0 LTR. TURBO | FRONT, Coupe                         | 09-13 | 51511 |
| L6 | 3.0 LTR. TURBO | REAR, Coupe                          | 09-13 | 51512 |

| CYL                           | APPLICATION    | NOTES                                 | YEAR  | KARLYN # |
|-------------------------------|----------------|---------------------------------------|-------|----------|
| <b>335is</b>                  |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT                                 | 11-13 | 50334    |
| L6                            | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)  | 2013  | 51515    |
| L6                            | 3.0 LTR. TURBO | REAR                                  | 11-13 | 50349    |
| <b>335xi</b>                  |                |                                       |       |          |
| L6                            | 3.0 LTR. TURBO | FRONT                                 | 07-08 | 51511    |
| L6                            | 3.0 LTR. TURBO | REAR                                  | 07-08 | 51512    |
| <b>340i</b>                   |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (excl. Adaptive Cruise Control) | 16-18 | 51514    |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 16-18 | 51372    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 16-18 | 51515    |
| <b>340i GT xDrive</b>         |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (Adaptive Cruise Control)       | 17-19 | 51563    |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>340i xDrive</b>            |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (Adaptive Cruise Control)       | 16-18 | 51563    |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 16-18 | 51372    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 16-18 | 51515    |
| <b>428i</b>                   |                |                                       |       |          |
| L4                            | 2.0 LTR.       | FRONT (excl. Adaptive Cruise Control) | 14-16 | 51514    |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 14-16 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 14-16 | 51515    |
| <b>428i GRAN COUPE</b>        |                |                                       |       |          |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 15-16 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 15-16 | 51515    |
| <b>428i xDrive</b>            |                |                                       |       |          |
| L4                            | 2.0 LTR.       | FRONT (Adaptive Cruise Control)       | 14-16 | 51563    |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 14-16 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 14-16 | 51515    |
| <b>428i xDrive GRAN COUPE</b> |                |                                       |       |          |
| L4                            | 2.0 LTR.       | FRONT (Adaptive Cruise Control)       | 15-16 | 51563    |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 15-16 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 15-16 | 51515    |
| <b>430i</b>                   |                |                                       |       |          |
| L4                            | 2.0 LTR.       | FRONT (excl. Adaptive Cruise Control) | 17-19 | 51514    |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>430i GRAN COUPE</b>        |                |                                       |       |          |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>430i xDrive</b>            |                |                                       |       |          |
| L4                            | 2.0 LTR.       | FRONT (Adaptive Cruise Control)       | 17-19 | 51563    |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |

| CYL                           | APPLICATION    | NOTES                                 | YEAR  | KARLYN # |
|-------------------------------|----------------|---------------------------------------|-------|----------|
| <b>430i xDrive GRAN COUPE</b> |                |                                       |       |          |
| L4                            | 2.0 LTR.       | FRONT (Adaptive Cruise Control)       | 17-19 | 51563    |
| L4                            | 2.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L4                            | 2.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>435i</b>                   |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (excl. Adaptive Cruise Control) | 14-16 | 51514    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 14-16 | 51515    |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 14-15 | 51372    |
| L6                            | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)  | 14-16 | 51515    |
| L6                            | 3.0 LTR. TURBO | REAR (Adaptive Cruise Control)        | 14-15 | 51372    |
| <b>435i GRAN COUPE</b>        |                |                                       |       |          |
| L6                            | 3.0 LTR. TURBO | REAR (Adaptive Cruise Control)        | 2015  | 51372    |
| L6                            | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)  | 15-16 | 51515    |
| <b>435i xDrive</b>            |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (Adaptive Cruise Control)       | 14-16 | 51563    |
| L6                            | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)  | 14-16 | 51515    |
| L6                            | 3.0 LTR. TURBO | REAR (Adaptive Cruise Control)        | 14-15 | 51372    |
| <b>435i xDrive GRAN COUPE</b> |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (Adaptive Cruise Control)       | 15-16 | 51563    |
| L6                            | 3.0 LTR. TURBO | REAR (Adaptive Cruise Control)        | 2015  | 51372    |
| L6                            | 3.0 LTR. TURBO | REAR (excl. Adaptive Cruise Control)  | 15-16 | 51515    |
| <b>440i</b>                   |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (excl. Adaptive Cruise Control) | 17-19 | 51514    |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>440i GRAN COUPE</b>        |                |                                       |       |          |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>440i xDrive</b>            |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (Adaptive Cruise Control)       | 17-19 | 51563    |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>440i xDrive GRAN COUPE</b> |                |                                       |       |          |
| L6                            | 3.0 LTR.       | FRONT (Adaptive Cruise Control)       | 17-19 | 51563    |
| L6                            | 3.0 LTR.       | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L6                            | 3.0 LTR.       | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>525i</b>                   |                |                                       |       |          |
| L6                            | 2.5 LTR.       | FRONT                                 | 04-05 | 50350    |
| L6                            | 2.5 LTR.       | REAR                                  | 04-05 | 50345    |
| L6                            | 2.5 LTR.       | FRONT                                 | 01-03 | 50991    |
| L6                            | 2.5 LTR.       | REAR, SEDAN                           | 01-03 | 50207    |
| L6                            | 2.5 LTR.       | REAR, WAGON                           | 01-03 | 50993    |
| L6                            | 3.0 LTR.       | FRONT                                 | 06-07 | 50350    |
| L6                            | 3.0 LTR.       | REAR                                  | 06-07 | 50345    |
| <b>525xi</b>                  |                |                                       |       |          |
| L6                            | 3.0 LTR.       | REAR                                  | 06-07 | 50345    |

| CYL                   | APPLICATION     | NOTES       | YEAR  | KARLYN # |
|-----------------------|-----------------|-------------|-------|----------|
| <b>528i</b>           |                 |             |       |          |
| L4                    | 2.0 LTR.        | REAR        | 14-16 | 51513    |
| L4                    | 2.0 LTR. TURBO  | REAR        | 12-16 | 51513    |
| L6                    | 2.8 LTR.        | FRONT       | 99-00 | 50991    |
| L6                    | 2.8 LTR.        | REAR, SEDAN | 99-00 | 50207    |
| L6                    | 2.8 LTR.        | REAR, WAGON | 99-00 | 50993    |
| L6                    | 2.8 LTR.        | FRONT       | 97-98 | 50208    |
| L6                    | 2.8 LTR.        | REAR        | 97-98 | 50992    |
| L6                    | 3.0 LTR.        | REAR        | 2011  | 51513    |
| L6                    | 3.0 LTR.        | FRONT       | 08-10 | 50350    |
| L6                    | 3.0 LTR.        | REAR        | 08-10 | 50345    |
| V8                    | 4.4 LTR.        | REAR        | 2011  | 51513    |
| <b>528i xDrive</b>    |                 |             |       |          |
| L4                    | 2.0 LTR.        | FRONT       | 14-16 | 51312    |
| L4                    | 2.0 LTR.        | REAR        | 12-16 | 51513    |
| L4                    | 2.0 LTR. TURBO  | REAR        | 2012  | 51513    |
| L4                    | 2.0 LTR. TURBO  | FRONT       | 12-13 | 51312    |
| L6                    | 3.0 LTR.        | REAR        | 09-10 | 50345    |
| <b>528xi</b>          |                 |             |       |          |
| L6                    | 3.0 LTR.        | REAR        | 2008  | 50345    |
| <b>530i</b>           |                 |             |       |          |
| L6                    | 3.0 LTR.        | FRONT       | 04-07 | 50350    |
| L6                    | 3.0 LTR.        | REAR        | 04-07 | 50345    |
| L6                    | 3.0 LTR.        | FRONT       | 01-03 | 50991    |
| L6                    | 3.0 LTR.        | REAR        | 01-03 | 50207    |
| <b>530xi</b>          |                 |             |       |          |
| L6                    | 3.0 LTR.        | REAR        | 06-07 | 50345    |
| <b>535d</b>           |                 |             |       |          |
| L6                    | 3.0 LTR. DIESEL | REAR        | 14-16 | 51513    |
| <b>535d xDrive</b>    |                 |             |       |          |
| L6                    | 3.0 LTR. DIESEL | FRONT       | 14-16 | 51312    |
| L6                    | 3.0 LTR. DIESEL | REAR        | 14-16 | 51513    |
| <b>535i</b>           |                 |             |       |          |
| L6                    | 3.0 LTR.        | REAR        | 11-16 | 51513    |
| L6                    | 3.0 LTR. TURBO  | FRONT       | 08-10 | 50350    |
| L6                    | 3.0 LTR. TURBO  | REAR        | 08-10 | 50345    |
| V8                    | 4.4 LTR. TURBO  | REAR        | 11-13 | 51513    |
| <b>535i GT xDrive</b> |                 |             |       |          |
| L6                    | 3.0 LTR.        | FRONT       | 12-17 | 51312    |
| <b>535i XDRIVE</b>    |                 |             |       |          |
| L6                    | 3.0 LTR.        | REAR        | 09-10 | 50345    |
| L6                    | 3.0 LTR. TURBO  | FRONT       | 12-16 | 51312    |
| L6                    | 3.0 LTR. TURBO  | REAR        | 11-16 | 51513    |
| <b>535xi</b>          |                 |             |       |          |
| L6                    | 3.0 LTR. TURBO  | REAR        | 2008  | 50345    |

| CYL                           | APPLICATION    | NOTES       | YEAR  | KARLYN # |
|-------------------------------|----------------|-------------|-------|----------|
| <b>540i</b>                   |                |             |       |          |
| V8                            | 4.4 LTR.       | FRONT       | 99-03 | 50991    |
| V8                            | 4.4 LTR.       | REAR, SEDAN | 99-03 | 50207    |
| V8                            | 4.4 LTR.       | REAR, WAGON | 99-03 | 50993    |
| V8                            | 4.4 LTR.       | FRONT       | 97-98 | 50208    |
| V8                            | 4.4 LTR.       | REAR        | 97-98 | 50992    |
| <b>545i</b>                   |                |             |       |          |
| V8                            | 4.4 LTR.       | FRONT       | 04-05 | 50350    |
| V8                            | 4.4 LTR.       | REAR        | 04-05 | 50345    |
| <b>550i</b>                   |                |             |       |          |
| V8                            | 4.4 LTR.       | REAR        | 11-16 | 51513    |
| V8                            | 4.8 LTR.       | FRONT       | 06-10 | 50350    |
| V8                            | 4.8 LTR.       | REAR        | 06-10 | 50345    |
| <b>550i GT xDrive</b>         |                |             |       |          |
| V8                            | 4.4 LTR. TURBO | FRONT       | 10-17 | 51312    |
| <b>550i xDrive</b>            |                |             |       |          |
| V8                            | 4.4 LTR.       | FRONT       | 12-16 | 51312    |
| V8                            | 4.4 LTR.       | REAR        | 11-12 | 51513    |
| <b>640i</b>                   |                |             |       |          |
| L6                            | 3.0 LTR.       | REAR        | 12-18 | 51513    |
| <b>640i GRAN COUPE</b>        |                |             |       |          |
| L6                            | 3.0 LTR.       | REAR        | 2019  | 51513    |
| <b>640i xDrive</b>            |                |             |       |          |
| L6                            | 3.0 LTR.       | FRONT       | 14-18 | 51312    |
| L6                            | 3.0 LTR.       | REAR        | 14-17 | 51513    |
| <b>640i xDrive GRAN COUPE</b> |                |             |       |          |
| L6                            | 3.0 LTR.       | REAR        | 2019  | 51513    |
| L6                            | 3.0 LTR.       | FRONT       | 14-19 | 51312    |
| <b>645Ci</b>                  |                |             |       |          |
| V8                            | 4.4 LTR.       | FRONT       | 04-05 | 50350    |
| V8                            | 4.4 LTR.       | REAR        | 04-05 | 50345    |
| <b>650i</b>                   |                |             |       |          |
| V8                            | 4.4 LTR.       | REAR        | 12-18 | 51513    |
| V8                            | 4.4 LTR. TURBO | REAR        | 12-16 | 51513    |
| V8                            | 4.8 LTR.       | FRONT       | 06-10 | 50350    |
| V8                            | 4.8 LTR.       | REAR        | 06-10 | 50345    |
| <b>650i GRAN COUPE</b>        |                |             |       |          |
| V8                            | 4.4 LTR.       | REAR        | 2019  | 51513    |
| <b>650i xDrive</b>            |                |             |       |          |
| V8                            | 4.4 LTR.       | FRONT       | 12-18 | 51312    |
| V8                            | 4.4 LTR.       | REAR        | 12-18 | 51513    |
| <b>650i xDrive GRAN COUPE</b> |                |             |       |          |
| V8                            | 4.4 LTR.       | FRONT       | 13-18 | 51312    |



| CYL                 | APPLICATION     | NOTES                  | YEAR  | KARLYN # |
|---------------------|-----------------|------------------------|-------|----------|
| <b>740i</b>         |                 |                        |       |          |
| L6                  | 3.0 LTR.        | REAR                   | 11-15 | 51509    |
| V8                  | 4.0 LTR.        | FRONT                  | 1995  | 50210    |
| V8                  | 4.0 LTR.        | REAR                   | 1995  | 50211    |
| V8                  | 4.4 LTR.        | FRONT, From 8/1998 on  | 99-01 | 50354    |
| V8                  | 4.4 LTR.        | FRONT                  | 97-98 | 50210    |
| V8                  | 4.4 LTR.        | REAR                   | 97-98 | 50211    |
| <b>740iL</b>        |                 |                        |       |          |
| V8                  | 4.0 LTR.        | FRONT                  | 1995  | 50210    |
| V8                  | 4.0 LTR.        | REAR                   | 1995  | 50211    |
| V8                  | 4.4 LTR.        | FRONT, From 8/1998 on  | 99-01 | 50354    |
| V8                  | 4.4 LTR.        | FRONT                  | 96-98 | 50210    |
| V8                  | 4.4 LTR.        | REAR                   | 96-98 | 50211    |
| <b>740Ld xDrive</b> |                 |                        |       |          |
| L6                  | 3.0 LTR.        | REAR                   | 2015  | 51509    |
| L6                  | 3.0 LTR. DIESEL | FRONT                  | 2015  | 51312    |
| <b>740Li</b>        |                 |                        |       |          |
| L6                  | 3.0 LTR.        | REAR                   | 11-15 | 51509    |
| <b>740Li xDrive</b> |                 |                        |       |          |
| L6                  | 3.0 LTR.        | FRONT                  | 13-15 | 51312    |
| L6                  | 3.0 LTR.        | REAR                   | 13-15 | 51509    |
| <b>745i</b>         |                 |                        |       |          |
| V8                  | 4.4 LTR.        | FRONT, From 03/2003 on | 03-05 | 51575    |
| V8                  | 4.4 LTR.        | FRONT, Up To 02/2003   | 02-03 | 50348    |
| <b>745Li</b>        |                 |                        |       |          |
| V8                  | 4.4 LTR.        | FRONT, From 03/2003 on | 03-05 | 51575    |
| V8                  | 4.4 LTR.        | FRONT, Up To 02/2003   | 02-03 | 50348    |
| <b>750i</b>         |                 |                        |       |          |
| V8                  | 4.4 LTR.        | REAR                   | 09-15 | 51509    |
| V8                  | 4.8 LTR.        | FRONT                  | 06-08 | 51575    |
| <b>750i xDrive</b>  |                 |                        |       |          |
| V8                  | 4.4 LTR.        | FRONT                  | 10-15 | 51312    |
| V8                  | 4.4 LTR.        | REAR                   | 10-15 | 51509    |
| <b>750iL</b>        |                 |                        |       |          |
| V12                 | 5.4 LTR.        | FRONT, From 8/1998 on  | 99-01 | 50354    |
| V12                 | 5.4 LTR.        | FRONT                  | 95-98 | 50210    |
| V12                 | 5.4 LTR.        | REAR                   | 95-98 | 50211    |
| <b>750Li</b>        |                 |                        |       |          |
| V8                  | 4.4 LTR.        | REAR                   | 09-15 | 51509    |
| V8                  | 4.8 LTR.        | FRONT                  | 06-08 | 51575    |
| <b>750Li xDrive</b> |                 |                        |       |          |
| V8                  | 4.4 LTR.        | FRONT                  | 10-15 | 51312    |
| V8                  | 4.4 LTR.        | REAR                   | 10-15 | 51509    |
| <b>760i</b>         |                 |                        |       |          |
| V12                 | 6.0 LTR.        | FRONT                  | 04-06 | 51575    |

| CYL                                | APPLICATION | NOTES                                 | YEAR  | KARLYN # |
|------------------------------------|-------------|---------------------------------------|-------|----------|
| <b>760Li</b>                       |             |                                       |       |          |
| V12                                | 6.0 LTR.    | FRONT, Up To 02/2003                  | 2003  | 50348    |
| V12                                | 6.0 LTR.    | REAR                                  | 10-15 | 51509    |
| V12                                | 6.0 LTR.    | FRONT, From 03/2003 on                | 03-08 | 51575    |
| <b>ACTIVEHYBRID</b>                |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | REAR                                  | 13-15 | 51509    |
| <b>ACTIVEHYBRID 3</b>              |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | FRONT (excl. Adaptive Cruise Control) | 13-15 | 51514    |
| L6                                 | 3.0 LTR.    | REAR (Adaptive Cruise Control)        | 13-15 | 51372    |
| L6                                 | 3.0 LTR.    | REAR (excl. Adaptive Cruise Control)  | 13-15 | 51515    |
| <b>ACTIVEHYBRID 5</b>              |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | REAR                                  | 12-16 | 51513    |
| <b>ALPINA B6 xDrive GRAN COUPE</b> |             |                                       |       |          |
| V8                                 | 4.4 LTR.    | FRONT                                 | 15-18 | 51312    |
| V8                                 | 4.4 LTR.    | REAR                                  | 15-18 | 51513    |
| <b>ALPINA B7</b>                   |             |                                       |       |          |
| V8                                 | 4.4 LTR.    | FRONT                                 | 07-08 | 51575    |
| <b>ALPINA B7 xDrive</b>            |             |                                       |       |          |
| V8                                 | 4.4 LTR.    | FRONT                                 | 12-15 | 51312    |
| V8                                 | 4.4 LTR.    | REAR                                  | 11-15 | 51509    |
| <b>ALPINA B75</b>                  |             |                                       |       |          |
| V8                                 | 4.4 LTR.    | REAR                                  | 11-15 | 51509    |
| <b>ALPINA B7L</b>                  |             |                                       |       |          |
| V8                                 | 4.4 LTR.    | FRONT                                 | 2011  | 51312    |
| V8                                 | 4.4 LTR.    | REAR                                  | 11-15 | 51509    |
| <b>ALPINA B7L xDrive</b>           |             |                                       |       |          |
| V8                                 | 4.4 LTR.    | FRONT                                 | 11-15 | 51312    |
| V8                                 | 4.4 LTR.    | REAR                                  | 11-15 | 51509    |
| <b>M2</b>                          |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | REAR (Adaptive Cruise Control)        | 16-19 | 51372    |
| <b>M235i</b>                       |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | FRONT (excl. Adaptive Cruise Control) | 14-16 | 51514    |
| L6                                 | 3.0 LTR.    | REAR (excl. Adaptive Cruise Control)  | 14-16 | 51515    |
| <b>M235i xDrive</b>                |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | FRONT (Adaptive Cruise Control)       | 15-16 | 51563    |
| L6                                 | 3.0 LTR.    | REAR (Adaptive Cruise Control)        | 15-16 | 51372    |
| L6                                 | 3.0 LTR.    | REAR (excl. Adaptive Cruise Control)  | 15-16 | 51515    |
| <b>M240i</b>                       |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L6                                 | 3.0 LTR.    | REAR (excl. Adaptive Cruise Control)  | 17-19 | 51515    |
| <b>M240i xDrive</b>                |             |                                       |       |          |
| L6                                 | 3.0 LTR.    | FRONT (Adaptive Cruise Control)       | 17-19 | 51563    |
| L6                                 | 3.0 LTR.    | REAR (Adaptive Cruise Control)        | 17-19 | 51372    |
| L6                                 | 3.0 LTR.    | REAR (excl. Adaptive Cruise Control)  | 17-18 | 51515    |

| CYL                  | APPLICATION     | NOTES                          | YEAR  | KARLYN # |
|----------------------|-----------------|--------------------------------|-------|----------|
| <b>M3</b>            |                 |                                |       |          |
| L6                   | 3.0 LTR.        | FRONT                          | 1995  | 50204    |
| L6                   | 3.0 LTR.        | REAR                           | 1995  | 50212    |
| L6                   | 3.0 LTR.        | REAR (Adaptive Cruise Control) | 15-18 | 51372    |
| L6                   | 3.2 LTR.        | FRONT                          | 96-99 | 50204    |
| L6                   | 3.2 LTR.        | REAR                           | 96-99 | 50212    |
| L6                   | 3.2 LTR.        | FRONT LEFT                     | 03-06 | 50201    |
| L6                   | 3.2 LTR.        | FRONT RIGHT                    | 03-06 | 50202    |
| L6                   | 3.2 LTR.        | REAR                           | 03-06 | 50203    |
| L6                   | 3.2 LTR.        | FRONT                          | 01-02 | 50205    |
| L6                   | 3.2 LTR.        | REAR                           | 01-02 | 50206    |
| V8                   | 4.0 LTR.        | FRONT                          | 08-13 | 51354    |
| V8                   | 4.0 LTR.        | REAR                           | 08-13 | 50349    |
| <b>M4</b>            |                 |                                |       |          |
| L6                   | 3.0 LTR.        | REAR (Adaptive Cruise Control) | 15-19 | 51372    |
| <b>M5</b>            |                 |                                |       |          |
| V8                   | 4.4 LTR.        | REAR                           | 13-16 | 51513    |
| V8                   | 5.0 LTR.        | FRONT                          | 00-03 | 50991    |
| V8                   | 5.0 LTR.        | REAR                           | 00-03 | 50207    |
| <b>M6</b>            |                 |                                |       |          |
| V8                   | 4.4 LTR.        | REAR                           | 12-17 | 51513    |
| <b>M6 GRAN COUPE</b> |                 |                                |       |          |
| V8                   | 4.4 LTR.        | REAR                           | 2019  | 51513    |
| <b>X3</b>            |                 |                                |       |          |
| L4                   | 2.0 LTR.        | REAR                           | 14-17 | 51358    |
| L4                   | 2.0 LTR.        | FRONT                          | 13-17 | 51562    |
| L4                   | 2.0 LTR. DIESEL | REAR                           | 15-17 | 51358    |
| L4                   | 2.0 LTR. TURBO  | REAR                           | 13-16 | 51358    |
| L6                   | 2.5 LTR.        | REAR                           | 2011  | 51358    |
| L6                   | 2.5 LTR.        | FRONT                          | 04-05 | 50343    |
| L6                   | 2.5 LTR.        | REAR                           | 04-05 | 50336    |
| L6                   | 3.0 LTR.        | REAR                           | 2017  | 51358    |
| L6                   | 3.0 LTR.        | FRONT                          | 11-17 | 51562    |
| L6                   | 3.0 LTR.        | REAR                           | 11-14 | 51358    |
| L6                   | 3.0 LTR.        | FRONT                          | 04-10 | 50343    |
| L6                   | 3.0 LTR.        | REAR                           | 04-10 | 50336    |
| L6                   | 3.0 LTR. TURBO  | REAR                           | 11-17 | 51358    |
| <b>X4</b>            |                 |                                |       |          |
| L4                   | 2.0 LTR.        | FRONT                          | 15-18 | 51562    |
| L4                   | 2.0 LTR.        | REAR                           | 15-18 | 51358    |
| L4                   | 2.0 LTR. TURBO  | REAR                           | 15-16 | 51358    |
| L6                   | 3.0 LTR.        | REAR                           | 17-18 | 51358    |
| L6                   | 3.0 LTR.        | FRONT                          | 15-18 | 51562    |
| L6                   | 3.0 LTR. TURBO  | REAR                           | 15-16 | 51358    |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## X5

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| L6 | 3.0 LTR. | REAR  | 04-06 | 50342 |
| L6 | 3.0 LTR. | FRONT | 01-03 | 50339 |
| L6 | 3.0 LTR. | REAR  | 01-03 | 50338 |
| V8 | 4.4 LTR. | REAR  | 04-06 | 50342 |
| V8 | 4.4 LTR. | FRONT | 00-03 | 50339 |
| V8 | 4.4 LTR. | REAR  | 00-03 | 50338 |
| V8 | 4.6 LTR. | FRONT | 02-03 | 50339 |
| V8 | 4.6 LTR. | REAR  | 02-03 | 50338 |
| V8 | 4.8 LTR. | REAR  | 04-06 | 50342 |

## Z3

|    |          |                  |       |       |
|----|----------|------------------|-------|-------|
| L4 | 1.9 LTR. | FRONT (with DSC) | 96-98 | 50204 |
| L6 | 2.5 LTR. | FRONT (with DSC) | 99-02 | 50204 |
| L6 | 2.8 LTR. | FRONT (with DSC) | 98-00 | 50204 |
| L6 | 3.2 LTR. | FRONT            | 1999  | 50204 |
| L6 | 3.2 LTR. | FRONT (with DSC) | 1998  | 50204 |
| L6 | 3.2 LTR. | FRONT (with DSC) | 00-02 | 50204 |

## Z4

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| L6 | 2.5 LTR. | FRONT LEFT  | 03-05 | 50201 |
| L6 | 2.5 LTR. | FRONT RIGHT | 03-05 | 50202 |
| L6 | 3.0 LTR. | FRONT LEFT  | 03-08 | 50201 |
| L6 | 3.0 LTR. | FRONT RIGHT | 03-08 | 50202 |
| L6 | 3.2 LTR. | FRONT LEFT  | 06-08 | 50201 |
| L6 | 3.2 LTR. | FRONT RIGHT | 06-08 | 50202 |

## HYUNDAI

### ELANTRA

|    |               |             |       |       |
|----|---------------|-------------|-------|-------|
| L4 | 2.0 LTR.      | FRONT RIGHT | 01-06 | 50110 |
| L4 | 2.0 LTR. DOHC | FRONT LEFT  | 01-06 | 50689 |

### SANTA FE

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| V6 | 2.4 LTR. | FRONT RIGHT | 01-04 | 50098 |
| V6 | 2.7 LTR. | FRONT RIGHT | 01-06 | 50098 |
| V6 | 3.5 LTR. | FRONT RIGHT | 03-06 | 50098 |

### SONATA

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| L4 | 2.4 LTR. | FRONT RIGHT | 99-04 | 50433 |
| V6 | 2.5 LTR. | FRONT RIGHT | 99-01 | 50433 |
| V6 | 2.7 LTR. | FRONT RIGHT | 02-04 | 50433 |

### XG300

|    |          |             |      |       |
|----|----------|-------------|------|-------|
| V6 | 3.0 LTR. | FRONT RIGHT | 2001 | 50433 |
|----|----------|-------------|------|-------|

### XG350

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| V6 | 3.0 LTR. | FRONT RIGHT | 02-05 | 50433 |
|----|----------|-------------|-------|-------|

## JAGUAR

### X-TYPE

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| V6 | 2.5 LTR. | REAR RIGHT | 02-05 | 51327 |
| V6 | 3.0 LTR. | REAR RIGHT | 02-08 | 51327 |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## KIA

### OPTIMA

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| L4 | 2.4 LTR. | FRONT RIGHT | 01-06 | 50433 |
| V6 | 2.5 LTR. | FRONT RIGHT | 2001  | 50433 |
| V6 | 2.7 LTR. | FRONT RIGHT | 02-06 | 50433 |

## LAND ROVER

### RANGE ROVER

|    |                       |       |       |       |
|----|-----------------------|-------|-------|-------|
| V6 | 3.0 LTR.              | FRONT | 14-16 | 51389 |
| V6 | 3.0 LTR.              | REAR  | 14-16 | 51388 |
| V8 | 4.2 LTR. Supercharged | FRONT | 2006  | 50471 |
| V8 | 4.4 LTR.              | FRONT | 03-06 | 50471 |
| V8 | 5.0 LTR.              | FRONT | 13-16 | 51389 |
| V8 | 5.0 LTR.              | REAR  | 13-16 | 51388 |

### RANGE ROVER SPORT

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| V6 | 3.0 LTR. | FRONT | 14-16 | 51389 |
| V6 | 3.0 LTR. | REAR  | 14-16 | 51388 |
| V8 | 5.0 LTR. | FRONT | 14-16 | 51389 |
| V8 | 5.0 LTR. | REAR  | 14-16 | 51388 |

## LEXUS

### ES300

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| V6 | 3.0 LTR. | REAR RIGHT | 92-01 | 50181 |
|----|----------|------------|-------|-------|

## MERCEDES-BENZ

### B ELECTRIC DRIVE

|  |  |          |      |       |
|--|--|----------|------|-------|
|  |  | ELECTRIC | 2015 | 51416 |
|--|--|----------|------|-------|

### B250e

|  |  |          |       |       |
|--|--|----------|-------|-------|
|  |  | ELECTRIC | 16-17 | 51416 |
|--|--|----------|-------|-------|

### C220

|    |          |      |       |       |
|----|----------|------|-------|-------|
| L4 | 2.2 LTR. | REAR | 94-96 | 50527 |
|----|----------|------|-------|-------|

### C230

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| L4 | 1.8 LTR. | REAR LEFT  | 03-05 | 50604 |
| L4 | 1.8 LTR. | REAR RIGHT | 03-05 | 50730 |
| L4 | 2.3 LTR. | REAR       | 97-00 | 50527 |
| L4 | 2.3 LTR. | REAR LEFT  | 2002  | 50604 |
| L4 | 2.3 LTR. | REAR RIGHT | 2002  | 50730 |
| V6 | 2.5 LTR. | REAR LEFT  | 06-07 | 50604 |
| V6 | 2.5 LTR. | REAR RIGHT | 06-07 | 50730 |

### C240

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| V6 | 2.6 LTR. | REAR LEFT  | 01-05 | 50604 |
| V6 | 2.6 LTR. | REAR RIGHT | 01-05 | 50730 |

| CYL             | APPLICATION    | NOTES   | YEAR  | KARLYN # |
|-----------------|----------------|---|-------|----------|
| <b>C250</b>     |                |   |       |          |
| L4              | 1.8 LTR.       | FRONT (for cars w/ code 802, 803, 804 or 805) | 12-15 | 51530    |
| L4              | 1.8 LTR.       | REAR, w/o Black Series Code P98               | 12-15 | 50499    |
| L4              | 1.8 LTR.       | FRONT   | 12-14 | 50234    |
| <b>C280</b>     |                |   |       |          |
| V6              | 2.8 LTR.       | REAR  | 94-97 | 50527    |
| V6              | 3.0 LTR.       | REAR LEFT                                     | 06-07 | 50604    |
| V6              | 3.0 LTR.       | REAR RIGHT                                    | 06-07 | 50730    |
| <b>C300</b>     |                |   |       |          |
| V6              | 3.0 LTR.       | REAR, w/o Black Series Code P98               | 08-12 | 50499    |
| L6              | 3.0 LTR.       | FRONT   | 08-11 | 50234    |
| V6              | 3.0 LTR.       | FRONT (for cars w/ code 802, 803, 804 or 805) | 08-11 | 51530    |
| V6              | 3.5 LTR.       | REAR, w/o Black Series Code P98               | 08-13 | 50499    |
| <b>C32 AMG</b>  |                |   |       |          |
| V6              | 3.2 LTR.       | REAR LEFT                                     | 02-04 | 50604    |
| V6              | 3.2 LTR.       | REAR RIGHT                                    | 02-04 | 50730    |
| <b>C320</b>     |                |   |       |          |
| V6              | 3.2 LTR.       | REAR LEFT                                     | 01-05 | 50604    |
| V6              | 3.2 LTR.       | REAR RIGHT                                    | 01-05 | 50730    |
| <b>C350</b>     |                |   |       |          |
| V6              | 3.5 LTR.       | FRONT (for cars w/ code 802, 803, 804 or 805) | 08-15 | 51530    |
| V6              | 3.5 LTR.       | REAR, w/o Black Series Code P98               | 08-15 | 50499    |
| L6              | 3.5 LTR.       | FRONT   | 08-11 | 50234    |
| V6              | 3.5 LTR.       | REAR LEFT                                     | 06-07 | 50604    |
| V6              | 3.5 LTR.       | REAR RIGHT                                    | 06-07 | 50730    |
| <b>C36 AMG</b>  |                |   |       |          |
| V6              | 3.6 LTR.       | REAR  | 95-97 | 50527    |
| <b>C55 AMG</b>  |                |   |       |          |
| V6              | 5.5 LTR.       | REAR LEFT                                     | 05-06 | 50604    |
| V6              | 5.5 LTR.       | REAR RIGHT                                    | 05-06 | 50730    |
| <b>C63</b>      |                |   |       |          |
| V8              | 6.3 LTR.       | REAR, w/o Black Series Code P98               | 08-15 | 50499    |
| <b>CL500</b>    |                |   |       |          |
| V8              | 5.0 LTR.       | FRONT   | 00-06 | 50243    |
| V8              | 5.0 LTR.       | REAR LEFT                                     | 00-06 | 50237    |
| V8              | 5.0 LTR.       | REAR RIGHT                                    | 00-06 | 50238    |
| <b>CL55 AMG</b> |                |   |       |          |
| V8              | 5.5 LTR.       | FRONT   | 01-06 | 50243    |
| V8              | 5.5 LTR.       | REAR LEFT                                     | 01-02 | 50237    |
| V8              | 5.5 LTR.       | REAR RIGHT                                    | 01-02 | 50238    |
| <b>CL550</b>    |                |   |       |          |
| V8              | 4.6 LTR. TURBO | REAR  | 11-14 | 51412    |
| V8              | 5.5 LTR.       | REAR, from 07/31/09                           | 09-10 | 51412    |
| V8              | 5.5 LTR.       | FRONT   | 07-08 | 50525    |

| CYL              | APPLICATION    | NOTES               | YEAR  | KARLYN # |
|------------------|----------------|---------------------|-------|----------|
| <b>CL600</b>     |                |                     |       |          |
| V12              | 5.5 LTR.       | FRONT               | 07-14 | 50525    |
| V12              | 5.5 LTR. TURBO | REAR, from 07/31/09 | 09-14 | 51412    |
| V12              | 5.8 LTR.       | FRONT               | 01-02 | 50243    |
| V12              | 5.8 LTR.       | REAR LEFT           | 01-02 | 50237    |
| V12              | 5.8 LTR.       | REAR RIGHT          | 01-02 | 50238    |
| <b>CL63 AMG</b>  |                |                     |       |          |
| V8               | 5.5 LTR.       | FRONT               | 11-14 | 50525    |
| V8               | 5.5 LTR. TURBO | REAR                | 11-14 | 51412    |
| V8               | 6.3 LTR.       | REAR, from 07/31/09 | 2010  | 51412    |
| V8               | 6.3 LTR.       | FRONT               | 08-10 | 50525    |
| <b>CL65 AMG</b>  |                |                     |       |          |
| V12              | 6.0 LTR.       | FRONT               | 08-14 | 50525    |
| V12              | 6.0 LTR. TURBO | REAR, from 07/31/09 | 09-14 | 51412    |
| <b>CLA250</b>    |                |                     |       |          |
| L4               | 2.0 LTR.       | REAR                | 14-19 | 51416    |
| <b>CLA45 AMG</b> |                |                     |       |          |
| L4               | 2.0 LTR.       | REAR                | 14-19 | 51416    |
| <b>CLK320</b>    |                |                     |       |          |
| V6               | 3.2 LTR.       | REAR LEFT           | 04-05 | 50604    |
| V6               | 3.2 LTR.       | REAR RIGHT          | 04-05 | 50730    |
| <b>CLK350</b>    |                |                     |       |          |
| V6               | 3.5 LTR.       | REAR LEFT           | 06-09 | 50604    |
| V6               | 3.5 LTR.       | REAR RIGHT          | 06-09 | 50730    |
| <b>CLK500</b>    |                |                     |       |          |
| V8               | 5.0 LTR.       | REAR LEFT           | 03-06 | 50604    |
| V8               | 5.0 LTR.       | REAR RIGHT          | 03-06 | 50730    |
| <b>CLK55</b>     |                |                     |       |          |
| V8               | 5.5 LTR.       | REAR LEFT           | 03-06 | 50604    |
| V8               | 5.5 LTR.       | REAR RIGHT          | 03-06 | 50730    |
| <b>CLK550</b>    |                |                     |       |          |
| V8               | 5.5 LTR.       | REAR LEFT           | 07-09 | 50604    |
| V8               | 5.5 LTR.       | REAR RIGHT          | 07-09 | 50730    |
| <b>CLK63</b>     |                |                     |       |          |
| V8               | 6.3 LTR.       | REAR LEFT           | 07-09 | 50604    |
| V8               | 6.3 LTR.       | REAR RIGHT          | 07-09 | 50730    |
| <b>CLS500</b>    |                |                     |       |          |
| V8               | 5.0 LTR.       | FRONT               | 2006  | 50242    |
| V8               | 5.0 LTR.       | REAR                | 2006  | 50500    |
| <b>CLS55 AMG</b> |                |                     |       |          |
| V8               | 5.5 LTR.       | FRONT               | 2006  | 50242    |
| V8               | 5.5 LTR.       | REAR                | 2006  | 50500    |
| <b>CLS550</b>    |                |                     |       |          |
| V8               | 5.5 LTR.       | REAR                | 07-11 | 50500    |
| V8               | 5.5 LTR.       | FRONT               | 07-10 | 50242    |

| CYL              | APPLICATION           | NOTES              | YEAR  | KARLYN # |
|------------------|-----------------------|--------------------|-------|----------|
| <b>CLS63</b>     |                       |                    |       |          |
| V8               | 6.3 LTR.              | REAR               | 07-11 | 50500    |
| <b>CLS63 AMG</b> |                       |                    |       |          |
| V8               | 6.3 LTR.              | FRONT              | 07-11 | 50242    |
| <b>E300</b>      |                       |                    |       |          |
| L6               | 3.0 LTR.              | FRONT RIGHT        | 96-99 | 50236    |
| <b>E320</b>      |                       |                    |       |          |
| V6               | 3.0 LTR.              | FRONT              | 07-09 | 50242    |
| V6               | 3.0 LTR.              | REAR               | 07-09 | 50500    |
| L6               | 3.2 LTR.              | FRONT RIGHT        | 96-02 | 50236    |
| L6               | 3.2 LTR.              | FRONT RIGHT, WAGON | 2003  | 50236    |
| V6               | 3.2 LTR.              | FRONT, SEDAN       | 2003  | 50242    |
| V6               | 3.2 LTR.              | FRONT, BASE        | 04-06 | 50242    |
| V6               | 3.2 LTR.              | FRONT, 4MATIC      | 04-05 | 51410    |
| V6               | 3.2 LTR.              | REAR               | 03-06 | 50500    |
| <b>E350</b>      |                       |                    |       |          |
| V6               | 3.5 LTR.              | FRONT, 4MATIC      | 06-09 | 51410    |
| V6               | 3.5 LTR.              | FRONT, BASE        | 06-09 | 50242    |
| V6               | 3.5 LTR.              | REAR               | 06-09 | 50500    |
| <b>E420</b>      |                       |                    |       |          |
| V8               | 4.2 LTR.              | FRONT RIGHT        | 1997  | 50236    |
| <b>E430</b>      |                       |                    |       |          |
| V8               | 4.3 LTR.              | FRONT RIGHT        | 98-02 | 50236    |
| <b>E500</b>      |                       |                    |       |          |
| V8               | 5.0 LTR.              | FRONT              | 2003  | 50242    |
| V8               | 5.0 LTR.              | FRONT, 4MATIC      | 04-06 | 51410    |
| V8               | 5.0 LTR.              | FRONT, BASE        | 04-06 | 50242    |
| V8               | 5.0 LTR.              | REAR               | 03-06 | 50500    |
| <b>E55 AMG</b>   |                       |                    |       |          |
| V8               | 5.5 LTR.              | FRONT RIGHT        | 99-02 | 50236    |
| V8               | 5.5 LTR.              | FRONT              | 03-06 | 50242    |
| V8               | 5.5 LTR.              | REAR               | 03-06 | 50500    |
| <b>E550</b>      |                       |                    |       |          |
| V8               | 5.5 LTR.              | FRONT, 4MATIC      | 07-09 | 51410    |
| V8               | 5.5 LTR.              | FRONT, BASE        | 07-09 | 50242    |
| V8               | 5.5 LTR.              | REAR               | 07-09 | 50500    |
| <b>E63</b>       |                       |                    |       |          |
| V8               | 6.3 LTR.              | REAR               | 07-09 | 50500    |
| <b>E63 AMG</b>   |                       |                    |       |          |
| V8               | 6.3 LTR.              | FRONT              | 07-09 | 50242    |
| <b>GL320</b>     |                       |                    |       |          |
| V6               | 3.0 LTR. TURBO DIESEL | FRONT              | 07-09 | 50669    |
| V6               | 3.0 LTR. TURBO DIESEL | REAR               | 07-09 | 50515    |



| CYL              | APPLICATION           | NOTES       | YEAR  | KARLYN # |
|------------------|-----------------------|-------------|-------|----------|
| <b>GL350</b>     |                       |             |       |          |
| V6               | 3.0 LTR. TURBO DIESEL | FRONT       | 10-12 | 50669    |
| V6               | 3.0 LTR. TURBO DIESEL | REAR        | 10-12 | 50515    |
| <b>GL450</b>     |                       |             |       |          |
| V8               | 4.6 LTR.              | REAR        | 07-12 | 50515    |
| <b>GL450 AWD</b> |                       |             |       |          |
| V8               | 4.6 LTR.              | FRONT       | 07-12 | 50669    |
| <b>GL550</b>     |                       |             |       |          |
| V8               | 5.5 LTR.              | REAR        | 08-12 | 50515    |
| <b>GL550 AWD</b> |                       |             |       |          |
| V8               | 5.5 LTR.              | FRONT       | 08-12 | 50669    |
| <b>GLA250</b>    |                       |             |       |          |
| L4               | 2.0 LTR.              | REAR        | 15-19 | 51416    |
| <b>GLA45 AMG</b> |                       |             |       |          |
| L4               | 2.0 LTR.              | REAR        | 15-19 | 51416    |
| <b>ML320</b>     |                       |             |       |          |
| V6               | 3.0 LTR. TURBO DIESEL | FRONT       | 07-09 | 50669    |
| V6               | 3.0 LTR. TURBO DIESEL | REAR        | 07-09 | 50515    |
| V6               | 3.2 LTR.              | FRONT LEFT  | 98-03 | 50507    |
| V6               | 3.2 LTR.              | FRONT RIGHT | 98-03 | 50508    |
| V6               | 3.2 LTR.              | REAR LEFT   | 98-03 | 50509    |
| <b>ML350</b>     |                       |             |       |          |
| V6               | 3.0 LTR. TURBO DIESEL | REAR        | 10-11 | 50515    |
| V6               | 3.5 LTR.              | FRONT       | 06-11 | 50669    |
| V6               | 3.5 LTR.              | REAR        | 06-11 | 50515    |
| <b>ML430</b>     |                       |             |       |          |
| V8               | 4.3 LTR.              | FRONT LEFT  | 99-01 | 50507    |
| V8               | 4.3 LTR.              | FRONT RIGHT | 99-01 | 50508    |
| V8               | 4.3 LTR.              | REAR LEFT   | 99-01 | 50509    |
| <b>ML450</b>     |                       |             |       |          |
| V6               | 3.5 LTR.              | FRONT       | 10-11 | 50669    |
| V6               | 3.5 LTR.              | REAR        | 10-11 | 50515    |
| <b>ML500</b>     |                       |             |       |          |
| V8               | 5.0 LTR.              | FRONT       | 06-07 | 50669    |
| V8               | 5.0 LTR.              | REAR        | 06-07 | 50515    |
| V8               | 5.0 LTR.              | FRONT LEFT  | 02-05 | 50507    |
| V8               | 5.0 LTR.              | FRONT RIGHT | 02-05 | 50508    |
| V8               | 5.0 LTR.              | REAR LEFT   | 02-05 | 50509    |
| <b>ML55 AMG</b>  |                       |             |       |          |
| V8               | 5.5 LTR.              | FRONT LEFT  | 00-03 | 50507    |
| V8               | 5.5 LTR.              | FRONT RIGHT | 00-03 | 50508    |
| V8               | 5.5 LTR.              | REAR LEFT   | 00-03 | 50509    |
| <b>ML550</b>     |                       |             |       |          |
| V8               | 5.5 LTR.              | FRONT       | 08-11 | 50669    |
| V8               | 5.5 LTR.              | REAR        | 08-11 | 50515    |

| CYL                | APPLICATION           | NOTES                | YEAR  | KARLYN # |
|--------------------|-----------------------|----------------------|-------|----------|
| <b>ML63 AMG</b>    |                       |                      |       |          |
| V8                 | 6.3 LTR.              | FRONT                | 07-11 | 50669    |
| V8                 | 6.3 LTR.              | REAR                 | 07-11 | 50515    |
| <b>R320</b>        |                       |                      |       |          |
| V6                 | 3.0 LTR. TURBO DIESEL | FRONT                | 07-09 | 50711    |
| V6                 | 3.0 LTR. TURBO DIESEL | REAR                 | 07-09 | 50515    |
| <b>R350</b>        |                       |                      |       |          |
| V6                 | 3.5 LTR.              | FRONT                | 06-12 | 50711    |
| V6                 | 3.5 LTR.              | REAR                 | 06-12 | 50515    |
| <b>R500</b>        |                       |                      |       |          |
| V8                 | 5.0 LTR.              | FRONT                | 06-07 | 50711    |
| V8                 | 5.0 LTR.              | REAR                 | 06-07 | 50515    |
| <b>R63</b>         |                       |                      |       |          |
| V8                 | 6.3 LTR.              | FRONT                | 2007  | 50711    |
| V8                 | 6.3 LTR.              | REAR                 | 2007  | 50515    |
| <b>S350</b>        |                       |                      |       |          |
| V6                 | 3.0 LTR.              | REAR LEFT            | 12-13 | 50524    |
| V6                 | 3.0 LTR. TURBO DIESEL | REAR, BLUETEC 4MATIC | 12-13 | 51412    |
| V6                 | 3.7 LTR.              | FRONT                | 2006  | 50243    |
| V6                 | 3.7 LTR.              | REAR LEFT            | 2006  | 50237    |
| V6                 | 3.7 LTR.              | REAR RIGHT           | 2006  | 50238    |
| <b>S400</b>        |                       |                      |       |          |
| V6                 | 3.5 LTR.              | FRONT                | 10-13 | 50525    |
| V6                 | 3.5 LTR.              | REAR LEFT            | 10-13 | 50524    |
| <b>S400 HYBRID</b> |                       |                      |       |          |
| V6                 | 3.5 LTR.              | REAR                 | 10-13 | 51412    |
| <b>S430</b>        |                       |                      |       |          |
| V8                 | 4.3 LTR.              | FRONT                | 00-06 | 50243    |
| V8                 | 4.3 LTR.              | REAR LEFT            | 00-06 | 50237    |
| V8                 | 4.3 LTR.              | REAR RIGHT           | 00-06 | 50238    |
| V8                 | 4.3 LTR. 4MATIC       | FRONT                | 03-06 | 50710    |
| <b>S500</b>        |                       |                      |       |          |
| V8                 | 5.0 LTR.              | FRONT                | 00-06 | 50243    |
| V8                 | 5.0 LTR.              | REAR LEFT            | 00-06 | 50237    |
| V8                 | 5.0 LTR.              | REAR RIGHT           | 00-06 | 50238    |
| V8                 | 5.0 LTR. 4MATIC       | FRONT                | 03-06 | 50710    |
| <b>S55 AMG</b>     |                       |                      |       |          |
| V8                 | 5.5 LTR.              | FRONT                | 01-06 | 50243    |
| V8                 | 5.5 LTR.              | REAR LEFT            | 01-02 | 50237    |
| V8                 | 5.5 LTR.              | REAR RIGHT           | 01-02 | 50238    |
| <b>S550</b>        |                       |                      |       |          |
| V8                 | 4.6 LTR.              | FRONT                | 12-13 | 50525    |
| V8                 | 4.6 LTR. TURBO        | REAR                 | 12-13 | 51412    |
| V8                 | 5.5 LTR.              | REAR, from 06/01/09  | 09-11 | 51412    |
| V8                 | 5.5 LTR.              | FRONT                | 07-11 | 50525    |
| V8                 | 5.5 LTR.              | REAR LEFT            | 07-11 | 50524    |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

### S550 4Matic

|    |                |                     |       |       |
|----|----------------|---------------------|-------|-------|
| V8 | 4.6 LTR. TURBO | REAR                | 12-13 | 51412 |
| V8 | 5.5 LTR.       | REAR, from 06/01/09 | 09-11 | 51412 |

### S600

|     |                |            |       |       |
|-----|----------------|------------|-------|-------|
| V12 | 5.5 LTR.       | FRONT      | 07-13 | 50525 |
| V12 | 5.5 LTR.       | REAR LEFT  | 07-13 | 50524 |
| V12 | 5.5 LTR. TURBO | REAR       | 09-13 | 51412 |
| V12 | 5.8 LTR.       | FRONT      | 01-02 | 50243 |
| V12 | 5.8 LTR.       | REAR LEFT  | 01-02 | 50237 |
| V12 | 5.8 LTR.       | REAR RIGHT | 01-02 | 50238 |

### S63 AMG

|    |          |                     |       |       |
|----|----------|---------------------|-------|-------|
| V8 | 5.5 LTR. | FRONT               | 11-13 | 50525 |
| V8 | 6.3 LTR. | REAR, from 06/01/09 | 09-10 | 51412 |
| V8 | 6.3 LTR. | FRONT               | 08-10 | 50525 |
| V8 | 6.3 LTR. | REAR LEFT           | 08-10 | 50524 |

### S65 AMG

|     |                |                     |       |       |
|-----|----------------|---------------------|-------|-------|
| V12 | 6.0 LTR.       | FRONT               | 07-13 | 50525 |
| V12 | 6.0 LTR.       | REAR LEFT           | 07-13 | 50524 |
| V12 | 6.0 LTR. TURBO | REAR, from 06/01/09 | 09-13 | 51412 |

### SL63 AMG

|    |          |       |      |       |
|----|----------|-------|------|-------|
| V8 | 6.3 LTR. | FRONT | 2009 | 50242 |
|----|----------|-------|------|-------|

### SLK300

|    |          |                                |       |       |
|----|----------|--------------------------------|-------|-------|
| V6 | 3.0 LTR. | REAR RIGHT, From 12/01/2009 on | 10-11 | 50503 |
|----|----------|--------------------------------|-------|-------|

### SLK350

|    |          |                                |       |       |
|----|----------|--------------------------------|-------|-------|
| V6 | 3.5 LTR. | REAR RIGHT, From 12/01/2009 on | 10-11 | 50503 |
|----|----------|--------------------------------|-------|-------|

### SLK55 AMG

|    |          |                                |      |       |
|----|----------|--------------------------------|------|-------|
| V8 | 5.5 LTR. | REAR RIGHT, From 12/01/2009 on | 2010 | 50503 |
|----|----------|--------------------------------|------|-------|

### SPRINTER 2500

|    |          |                             |       |       |
|----|----------|-----------------------------|-------|-------|
| L4 | 2.1 LTR. | FRONT                       | 2014  | 51365 |
| L4 | 2.1 LTR. | FRONT, REAR WHEEL DRIVE     | 15-17 | 51365 |
| V6 | 3.0 LTR. | FRONT, for cars w/ code WJ9 | 2012  | 51365 |
| V6 | 3.0 LTR. | FRONT, REAR WHEEL DRIVE     | 15-18 | 51365 |
| V6 | 3.0 LTR. | FRONT                       | 13-14 | 51365 |

### SPRINTER 3500

|    |          |                         |       |       |
|----|----------|-------------------------|-------|-------|
| L4 | 2.1 LTR. | FRONT                   | 2014  | 51365 |
| L4 | 2.1 LTR. | FRONT, REAR WHEEL DRIVE | 15-17 | 51365 |
| V6 | 3.0 LTR. | FRONT, REAR WHEEL DRIVE | 15-18 | 51365 |
| V6 | 3.0 LTR. | FRONT                   | 13-14 | 51365 |

## MINI

### COOPER

|    |                     |       |       |       |
|----|---------------------|-------|-------|-------|
| L4 | 1.6 LTR. (16-VALVE) | FRONT | 02-08 | 50128 |
| L4 | 1.6 LTR. (16-VALVE) | REAR  | 02-08 | 50129 |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## PORSCHE

### CARRERA

|     |          |                          |       |       |
|-----|----------|--------------------------|-------|-------|
| V10 | 5.7 LTR. | FRONT LEFT & REAR LEFT   | 04-05 | 50310 |
| V10 | 5.7 LTR. | FRONT RIGHT & REAR RIGHT | 04-05 | 50318 |

### CAYENNE

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| V6 | 3.2 LTR. | REAR LEFT  | 04-06 | 50311 |
| V6 | 3.2 LTR. | REAR RIGHT | 04-06 | 50313 |
| V6 | 3.6 LTR. | REAR LEFT  | 08-10 | 50311 |
| V6 | 3.6 LTR. | REAR RIGHT | 08-10 | 50313 |
| V6 | 4.5 LTR. | REAR LEFT  | 03-06 | 50311 |
| V8 | 4.5 LTR. | REAR RIGHT | 03-06 | 50313 |
| V6 | 4.8 LTR. | REAR LEFT  | 08-10 | 50311 |
| V8 | 4.8 LTR. | REAR RIGHT | 08-10 | 50313 |

## TOYOTA

### AVALON

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| V6 | 3.0 LTR. | REAR RIGHT | 95-04 | 50181 |
|----|----------|------------|-------|-------|

### CAMRY

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| L4 | 2.2 LTR. | REAR RIGHT | 92-01 | 50181 |
| V6 | 3.0 LTR. | REAR RIGHT | 92-01 | 50181 |

### SOLARA

|    |          |            |       |       |
|----|----------|------------|-------|-------|
| L4 | 2.2 LTR. | REAR RIGHT | 99-01 | 50181 |
| L4 | 2.4 LTR. | REAR RIGHT | 02-03 | 50181 |
| V6 | 3.0 LTR. | REAR RIGHT | 99-03 | 50181 |

## VOLKSWAGEN

### ARTEON

|    |          |      |      |       |
|----|----------|------|------|-------|
| L4 | 2.0 LTR. | REAR | 2019 | 51351 |
|----|----------|------|------|-------|

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## BEETLE

|    |                       |             |       |       |
|----|-----------------------|-------------|-------|-------|
| L4 | 1.8 LTR. TURBO        | FRONT LEFT  | 99-05 | 50315 |
| L4 | 1.8 LTR. TURBO        | FRONT RIGHT | 99-05 | 50316 |
| L4 | 1.8 LTR. TURBO        | REAR        | 99-05 | 50309 |
| L4 | 1.8 LTR. TURBO        | FRONT LEFT  | 14-16 | 50310 |
| L4 | 1.8 LTR. TURBO        | FRONT RIGHT | 14-16 | 50318 |
| L4 | 1.8 LTR. TURBO        | REAR LEFT   | 12-14 | 50293 |
| L4 | 1.8 LTR. TURBO        | REAR RIGHT  | 12-14 | 50307 |
| L4 | 1.9 LTR. TURBO DIESEL | FRONT LEFT  | 98-06 | 50315 |
| L4 | 1.9 LTR. TURBO DIESEL | FRONT RIGHT | 98-06 | 50316 |
| L4 | 1.9 LTR. TURBO DIESEL | REAR        | 98-06 | 50309 |
| L4 | 2.0 LTR.              | FRONT LEFT  | 98-05 | 50315 |
| L4 | 2.0 LTR.              | FRONT RIGHT | 98-05 | 50316 |
| L4 | 2.0 LTR. TURBO        | REAR        | 98-05 | 50309 |
| L4 | 2.0 LTR. TURBO        | FRONT LEFT  | 12-16 | 50310 |
| L4 | 2.0 LTR. TURBO        | FRONT RIGHT | 12-16 | 50318 |
| L4 | 2.0 LTR. TURBO        | REAR LEFT   | 12-14 | 50293 |
| L4 | 2.0 LTR. TURBO        | REAR RIGHT  | 12-14 | 50307 |
| L5 | 2.5 LTR.              | FRONT LEFT  | 12-14 | 50310 |
| L5 | 2.5 LTR.              | FRONT RIGHT | 12-14 | 50318 |
| L5 | 2.5 LTR.              | FRONT LEFT  | 06-10 | 50315 |
| L5 | 2.5 LTR.              | FRONT RIGHT | 06-10 | 50316 |
| L4 | 2.5 LTR. TURBO        | REAR LEFT   | 14-15 | 50293 |
| L4 | 2.5 LTR. TURBO        | REAR RIGHT  | 14-15 | 50307 |
| L4 | 2.5 LTR. TURBO        | REAR        | 06-10 | 50309 |

## CABRIO

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| L4 | 2.0 LTR. | REAR        | 96-02 | 50320 |
| L4 | 2.0 LTR. | FRONT LEFT  | 95-02 | 50315 |
| L4 | 2.0 LTR. | FRONT RIGHT | 95-02 | 50316 |

## CC

|     |                |                                 |       |       |
|-----|----------------|---------------------------------|-------|-------|
| L4  | 2.0 LTR. TURBO | REAR RIGHT, FWD, From 11/8/2010 | 11-16 | 50295 |
| L4  | 2.0 LTR. TURBO | FRONT LEFT                      | 09-16 | 50310 |
| L4  | 2.0 LTR. TURBO | FRONT RIGHT                     | 09-16 | 50318 |
| L4  | 2.0 LTR. TURBO | REAR LEFT, FWD, Thru 11/7/2010  | 09-11 | 50293 |
| L4  | 2.0 LTR. TURBO | REAR LEFT. AWD                  | 09-11 | 50310 |
| L4  | 2.0 LTR. TURBO | REAR RIGHT, AWD                 | 09-11 | 50318 |
| L4  | 2.0 LTR. TURBO | REAR RIGHT, FWD, Thru 11/7/2010 | 09-11 | 50307 |
| VR6 | 3.6 LTR.       | FRONT LEFT                      | 09-16 | 50310 |
| VR6 | 3.6 LTR.       | FRONT RIGHT                     | 09-16 | 50318 |
| VR6 | 3.6 LTR.       | REAR LEFT. AWD                  | 09-11 | 50310 |
| VR6 | 3.6 LTR.       | REAR RIGHT, AWD                 | 09-11 | 50318 |
| VR6 | 3.6 LTR.       | REAR LEFT, FWD                  | 09-10 | 50293 |
| VR6 | 3.6 LTR.       | REAR RIGHT, FWD                 | 09-10 | 50307 |

## CORRADO

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| V6 | 2.8 LTR. | FRONT LEFT  | 92-94 | 50315 |
| V6 | 2.8 LTR. | FRONT RIGHT | 92-94 | 50316 |

## E-GOLF

|  |  |          |       |       |
|--|--|----------|-------|-------|
|  |  | ELECTRIC | 16-19 | 51351 |
|--|--|----------|-------|-------|

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## EOS

|    |                |  |       |       |
|----|----------------|--|-------|-------|
| L4 | 2.0 LTR. TURBO | REAR LEFT w/o Parallel Parking Assistant   | 11-16 | 50293 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT, w/o Parallel Parking Assistant | 11-16 | 50307 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT, w/ Parallel Parking Assistant  | 11-16 | 50295 |
| L4 | 2.0 LTR. TURBO | FRONT LEFT                                 | 07-16 | 50310 |
| L4 | 2.0 LTR. TURBO | FRONT RIGHT                                | 07-16 | 50318 |
| L4 | 2.0 LTR. TURBO | REAR LEFT                                  | 07-10 | 50293 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT                                 | 07-10 | 50307 |
| V6 | 3.2 LTR.       | FRONT LEFT                                 | 07-08 | 50310 |
| V6 | 3.2 LTR.       | FRONT RIGHT                                | 07-08 | 50318 |
| V6 | 3.2 LTR.       | REAR LEFT                                  | 07-08 | 50293 |
| V6 | 3.2 LTR.       | REAR RIGHT                                 | 07-08 | 50307 |

## GOLF

|    |                       |                                    |       |       |
|----|-----------------------|------------------------------------|-------|-------|
| L4 | 1.4 LTR.              | REAR                               | 16-19 | 51351 |
| L4 | 1.8 LTR.              | REAR                               | 16-18 | 51351 |
| L4 | 1.8 LTR. TURBO        | FRONT LEFT                         | 00-06 | 50315 |
| L4 | 1.8 LTR. TURBO        | FRONT RIGHT                        | 00-06 | 50316 |
| L4 | 1.8 LTR. TURBO        | REAR                               | 00-06 | 50309 |
| L4 | 1.9 LTR. TURBO DIESEL | FRONT LEFT                         | 99-06 | 50315 |
| L4 | 1.9 LTR. TURBO DIESEL | FRONT RIGHT                        | 99-06 | 50316 |
| L4 | 1.9 LTR. TURBO DIESEL | REAR, From 10/98; VIN 1J.X.000 001 | 99-05 | 50309 |
| L4 | 2.0 LTR.              | REAR, From 10/98; VIN 1J.X.000 001 | 99-06 | 50309 |
| L4 | 2.0 LTR.              | REAR, Thru 9/98; VIN 1H.XM240.854  | 95-99 | 50320 |
| L4 | 2.0 LTR.              | FRONT LEFT                         | 94-06 | 50315 |
| L4 | 2.0 LTR.              | FRONT RIGHT                        | 94-06 | 50316 |
| L4 | 2.0 LTR.              | REAR                               | 2019  | 51351 |
| L4 | 2.0 LTR. TURBO        | FRONT LEFT                         | 12-14 | 50310 |
| L4 | 2.0 LTR. TURBO        | FRONT RIGHT                        | 12-14 | 50318 |
| L4 | 2.0 LTR. TURBO        | REAR LEFT                          | 10-14 | 50293 |
| L4 | 2.0 LTR. TURBO        | REAR RIGHT                         | 10-14 | 50307 |
| L5 | 2.5 LTR.              | FRONT LEFT                         | 10-14 | 50310 |
| L5 | 2.5 LTR.              | FRONT RIGHT                        | 10-14 | 50318 |
| L5 | 2.5 LTR.              | REAR LEFT                          | 10-14 | 50293 |
| L5 | 2.5 LTR.              | REAR RIGHT                         | 10-14 | 50307 |
| V6 | 2.8 LTR.              | REAR, From 10/98; VIN 1J.X.000 001 | 99-05 | 50309 |
| V6 | 2.8 LTR.              | REAR, Thru 9/98; VIN 1H.XM240.854  | 95-99 | 50320 |
| V6 | 2.8 LTR.              | FRONT LEFT                         | 95-05 | 50315 |
| V6 | 2.8 LTR.              | FRONT RIGHT                        | 95-05 | 50316 |

## GOLF ALLTRACK

|    |          |      |      |       |
|----|----------|------|------|-------|
| L4 | 1.8 LTR. | REAR | 2017 | 51351 |
|----|----------|------|------|-------|

## GOLF R32

|    |          |             |      |       |
|----|----------|-------------|------|-------|
| V6 | 3.2 LTR. | FRONT LEFT  | 2004 | 50315 |
| V6 | 3.2 LTR. | FRONT RIGHT | 2004 | 50316 |
| V6 | 3.2 LTR. | REAR, AWD   | 2004 | 50656 |

## GOLF SPORT WAGEN

|    |          |      |       |       |
|----|----------|------|-------|-------|
| L4 | 1.8 LTR. | REAR | 16-19 | 51351 |
|----|----------|------|-------|-------|

| CYL          | APPLICATION           | NOTES                                       | YEAR  | KARLYN # |
|--------------|-----------------------|---|-------|----------|
| <b>GTI</b>   |                       |   |       |          |
| L4           | 2.0 LTR.              | REAR  | 16-19 | 51351    |
| L4           | 2.0 LTR. TURBO        | REAR  | 2018  | 51351    |
| L4           | 2.0 LTR. TURBO        | REAR  | 2016  | 51351    |
| L4           | 2.0 LTR. TURBO        | FRONT LEFT                                  | 06-14 | 50310    |
| L4           | 2.0 LTR. TURBO        | FRONT RIGHT                                 | 06-14 | 50318    |
| L4           | 2.0 LTR. TURBO        | REAR LEFT                                   | 06-14 | 50293    |
| L4           | 2.0 LTR. TURBO        | REAR RIGHT                                  | 06-14 | 50307    |
| <b>JETTA</b> |                       |   |       |          |
| L4           | 1.4 LTR.              | REAR RIGHT                                  | 15-16 | 50295    |
| L4           | 1.4 LTR.              | REAR LEFT                                   | 13-16 | 50293    |
| L4           | 1.4 LTR.              | REAR RIGHT                                  | 13-14 | 50307    |
| L4           | 1.4 LTR. TURBO        | FRONT LEFT                                  | 13-16 | 50310    |
| L4           | 1.4 LTR. TURBO        | FRONT RIGHT                                 | 13-16 | 50318    |
| L4           | 1.8 LTR. TURBO        | REAR RIGHT                                  | 2014  | 50307    |
| L4           | 1.8 LTR. TURBO        | REAR LEFT, From 1/05; VIN 1K.5.600 001      | 2005  | 50293    |
| L4           | 1.8 LTR. TURBO        | REAR RIGHT, From 01/2005; VIN 1K-5-600 001  | 2005  | 50307    |
| L4           | 1.8 LTR. TURBO        | REAR RIGHT                                  | 15-16 | 50295    |
| L4           | 1.8 LTR. TURBO        | FRONT LEFT                                  | 14-16 | 50310    |
| L4           | 1.8 LTR. TURBO        | FRONT RIGHT                                 | 14-16 | 50318    |
| L4           | 1.8 LTR. TURBO        | REAR LEFT                                   | 14-16 | 50293    |
| L4           | 1.8 LTR. TURBO        | FRONT LEFT                                  | 00-05 | 50315    |
| L4           | 1.8 LTR. TURBO        | FRONT RIGHT                                 | 00-05 | 50316    |
| L4           | 1.8 LTR. TURBO        | REAR, Thru 12/04; VIN 9M.5.149 999          | 00-05 | 50309    |
| L4           | 1.9 LTR. TURBO DIESEL | REAR, Thru 12/04; VIN 9M.5.149 999          | 99-05 | 50309    |
| L4           | 1.9 LTR. TURBO DIESEL | FRONT LEFT, Thru 12/04; VIN 9M.5.149 999    | 97-05 | 50315    |
| L4           | 1.9 LTR. TURBO DIESEL | FRONT RIGHT, Thru 12/04; VIN 9M.5.149 999   | 97-05 | 50316    |
| L4           | 1.9 LTR. TURBO DIESEL | FRONT LEFT, From 01/2005; VIN 1K-5-600 001  | 05-06 | 50310    |
| L4           | 1.9 LTR. TURBO DIESEL | FRONT RIGHT, From 01/2005; VIN 1K-5-600 001 | 05-06 | 50318    |
| L4           | 1.9 LTR. TURBO DIESEL | REAR LEFT, From 1/05; VIN 1K.5.600 001      | 05-06 | 50293    |
| L4           | 1.9 LTR. TURBO DIESEL | REAR RIGHT, From 01/2005; VIN 1K-5-600 001  | 05-06 | 50307    |
| L4           | 2.0 LTR.              | REAR, Thru 12/04; VIN 9M.5.149 999          | 99-05 | 50309    |
| L4           | 2.0 LTR.              | FRONT LEFT, Thru 12/04; VIN 9M.5.149 999    | 93-05 | 50315    |
| L4           | 2.0 LTR.              | FRONT RIGHT, Thru 12/04; VIN 9M.5.149 999   | 93-05 | 50316    |
| L4           | 2.0 LTR.              | REAR  | 2019  | 51351    |
| L4           | 2.0 LTR.              | REAR RIGHT                                  | 15-16 | 50295    |
| L4           | 2.0 LTR.              | FRONT LEFT, From 01/2005; VIN 1K-5-600 001  | 05-16 | 50310    |
| L4           | 2.0 LTR.              | FRONT RIGHT, From 01/2005; VIN 1K-5-600 001 | 05-16 | 50318    |
| L4           | 2.0 LTR.              | REAR LEFT, From 1/05; VIN 1K.5.600 001      | 05-14 | 50293    |
| L4           | 2.0 LTR.              | REAR RIGHT, From 01/2005; VIN 1K-5-600 001  | 05-14 | 50307    |
| L5           | 2.5 LTR.              | FRONT LEFT, From 01/2005; VIN 1K-5-600 001  | 05-14 | 50310    |
| L5           | 2.5 LTR.              | FRONT RIGHT, From 01/2005; VIN 1K-5-600 001 | 05-14 | 50318    |
| L5           | 2.5 LTR.              | REAR LEFT                                   | 05-14 | 50293    |
| L5           | 2.5 LTR.              | REAR RIGHT                                  | 05-14 | 50307    |
| V6           | 2.8 LTR.              | REAR, Thru 12/04; VIN 9M.5.149 999          | 99-04 | 50309    |
| V6           | 2.8 LTR.              | REAR  | 94-97 | 50320    |
| V6           | 2.8 LTR.              | FRONT LEFT                                  | 94-04 | 50315    |
| V6           | 2.8 LTR.              | FRONT RIGHT                                 | 94-04 | 50316    |
| V6           | 2.8 LTR.              | REAR, Thru 9/98; VIN 1H.XM240 854           | 1999  | 50320    |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## PASSAT

|    |                       |             |       |       |
|----|-----------------------|-------------|-------|-------|
| L4 | 1.8 LTR.              | FRONT       | 98-99 | 50323 |
| L4 | 1.8 LTR.              | REAR        | 98-05 | 50319 |
| L4 | 1.8 LTR.              | FRONT       | 00-05 | 50325 |
| L4 | 1.8 LTR. TURBO        | REAR LEFT   | 2014  | 50293 |
| L4 | 1.8 LTR. TURBO        | REAR RIGHT  | 2014  | 50307 |
| L4 | 1.8 LTR. TURBO        | FRONT LEFT  | 14-16 | 50310 |
| L4 | 1.8 LTR. TURBO        | FRONT RIGHT | 14-16 | 50318 |
| L4 | 1.9 LTR. TURBO DIESEL | FRONT LEFT  | 96-97 | 50315 |
| L4 | 1.9 LTR. TURBO DIESEL | FRONT RIGHT | 96-97 | 50316 |
| L4 | 2.0 LTR.              | FRONT LEFT  | 95-96 | 50315 |
| L4 | 2.0 LTR.              | FRONT RIGHT | 95-96 | 50316 |
| L4 | 2.0 LTR.              | FRONT       | 04-05 | 50325 |
| L4 | 2.0 LTR.              | REAR        | 04-05 | 50319 |
| L4 | 2.0 LTR. TURBO        | FRONT LEFT  | 06-15 | 50310 |
| L4 | 2.0 LTR. TURBO        | FRONT RIGHT | 06-15 | 50318 |
| L4 | 2.0 LTR. TURBO        | REAR LEFT   | 06-14 | 50293 |
| L4 | 2.0 LTR. TURBO        | REAR RIGHT  | 06-14 | 50307 |
| L5 | 2.5 LTR.              | FRONT LEFT  | 12-14 | 50310 |
| L5 | 2.5 LTR.              | FRONT RIGHT | 12-14 | 50318 |
| L5 | 2.5 LTR.              | REAR LEFT   | 12-14 | 50293 |
| L5 | 2.5 LTR.              | REAR RIGHT  | 12-14 | 50307 |
| V6 | 2.8 LTR.              | FRONT       | 99-05 | 50325 |
| V6 | 2.8 LTR.              | REAR        | 98-05 | 50319 |
| V6 | 2.8 LTR.              | FRONT LEFT  | 95-97 | 50315 |
| V6 | 2.8 LTR.              | FRONT RIGHT | 95-97 | 50316 |
| V6 | 2.8 LTR.              | FRONT       | 1998  | 50323 |
| V6 | 3.6 LTR.              | FRONT LEFT  | 06-16 | 50310 |
| V6 | 3.6 LTR.              | FRONT RIGHT | 06-16 | 50318 |
| V6 | 3.6 LTR.              | REAR LEFT   | 06-08 | 50293 |
| V6 | 3.6 LTR.              | REAR RIGHT  | 06-08 | 50307 |
| W8 | 4.0 LTR.              | FRONT       | 2002  | 50325 |
| W8 | 4.0 LTR.              | FRONT       | 03-04 | 50322 |

## PHAETON

|     |          |                         |       |       |
|-----|----------|-------------------------|-------|-------|
| V8  | 4.2 LTR. | FRONT LEFT & REAR RIGHT | 04-06 | 50304 |
| V8  | 4.2 LTR. | FRONT RIGHT & REAR LEFT | 04-06 | 50305 |
| W12 | 6.0 LTR. | FRONT LEFT & REAR RIGHT | 04-06 | 50304 |
| W12 | 6.0 LTR. | FRONT RIGHT & REAR LEFT | 04-06 | 50305 |

## R32

|    |          |                          |      |       |
|----|----------|--------------------------|------|-------|
| V6 | 3.2 LTR. | FRONT LEFT & REAR LEFT   | 2008 | 50310 |
| V6 | 3.2 LTR. | FRONT RIGHT & REAR RIGHT | 2008 | 50318 |

## RABBIT

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| L5 | 2.5 LTR. | FRONT LEFT  | 06-09 | 50310 |
| L5 | 2.5 LTR. | FRONT RIGHT | 06-09 | 50318 |
| L5 | 2.5 LTR. | REAR LEFT   | 06-09 | 50293 |
| L5 | 2.5 LTR. | REAR RIGHT  | 06-09 | 50307 |



| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## TIGUAN

|    |                |  |       |       |
|----|----------------|--|-------|-------|
| L4 | 2.0 LTR. TURBO | REAR LEFT, AWD w/o Parallel Parking Assistant  | 12-16 | 50310 |
| L4 | 2.0 LTR. TURBO | REAR LEFT, FWD w/o Parallel Parking Assistant  | 12-16 | 50293 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT, AWD w/o Parallel Park Assistant    | 12-16 | 50318 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT, FWD w/ Parallel Parking Assistant  | 12-16 | 50295 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT, FWD w/o Parallel Parking Assistant | 12-16 | 50307 |
| L4 | 2.0 LTR. TURBO | FRONT LEFT                                     | 09-14 | 50310 |
| L4 | 2.0 LTR. TURBO | FRONT RIGHT                                    | 09-14 | 50318 |
| L4 | 2.0 LTR. TURBO | REAR LEFT, FWD                                 | 09-11 | 50293 |
| L4 | 2.0 LTR. TURBO | REAR RIGHT                                     | 09-11 | 50307 |

## TOUAREG

|     |          |                        |       |       |
|-----|----------|------------------------|-------|-------|
| V6  | 3.0 LTR. | FRONT LEFT & REAR LEFT | 09-10 | 50311 |
| V6  | 3.2 LTR. | FRONT LEFT & REAR LEFT | 04-06 | 50311 |
| V6  | 3.2 LTR. | REAR RIGHT             | 04-06 | 50313 |
| V6  | 3.6 LTR. | FRONT LEFT & REAR LEFT | 07-10 | 50311 |
| V6  | 3.6 LTR. | REAR RIGHT             | 07-09 | 50313 |
| V8  | 4.2 LTR. | FRONT LEFT & REAR LEFT | 04-09 | 50311 |
| V8  | 4.2 LTR. | REAR RIGHT             | 04-09 | 50313 |
| V10 | 4.9 LTR. | FRONT LEFT & REAR LEFT | 2004  | 50311 |
| V10 | 5.0 LTR. | FRONT LEFT & REAR LEFT | 06-08 | 50311 |

## TOUAREG TDI

|     |          |            |       |       |
|-----|----------|------------|-------|-------|
| V6  | 3.0 LTR. | REAR RIGHT | 2009  | 50313 |
| V10 | 4.9 LTR. | REAR RIGHT | 2004  | 50313 |
| V10 | 5.0 LTR. | REAR RIGHT | 06-08 | 50313 |

# VOLVO

## 740

|    |                      |       |       |       |
|----|----------------------|-------|-------|-------|
| L4 | 2.3 LTR. INCL. TURBO | FRONT | 89-92 | 50651 |
|----|----------------------|-------|-------|-------|

## 760

|    |                |       |       |       |
|----|----------------|-------|-------|-------|
| L5 | 2.3 LTR. TURBO | FRONT | 89-90 | 50651 |
| L6 | 2.8 LTR.       | FRONT | 89-90 | 50651 |

## 780

|    |                |                               |       |       |
|----|----------------|-------------------------------|-------|-------|
| L5 | 2.3 LTR. TURBO | FRONT, from chassis # 6789 on | 89-91 | 50651 |
| L6 | 2.8 LTR.       | FRONT, from chassis # 6789 on | 89-90 | 50651 |

## 850

|    |                |       |       |       |
|----|----------------|-------|-------|-------|
| L5 | 2.3 LTR. TURBO | FRONT | 94-97 | 50645 |
| L5 | 2.3 LTR. TURBO | REAR  | 94-97 | 50646 |
| L5 | 2.4 LTR.       | FRONT | 93-97 | 50645 |
| L5 | 2.4 LTR.       | REAR  | 93-97 | 50646 |

## 940

|    |                      |       |       |       |
|----|----------------------|-------|-------|-------|
| L4 | 2.3 LTR. INCL. TURBO | FRONT | 91-95 | 50651 |
|----|----------------------|-------|-------|-------|

## 960

|    |          |       |       |       |
|----|----------|-------|-------|-------|
| L6 | 2.9 LTR. | FRONT | 92-94 | 50651 |
|----|----------|-------|-------|-------|

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

### C70

|    |                |       |       |       |
|----|----------------|-------|-------|-------|
| L5 | 2.3 LTR. TURBO | FRONT | 99-04 | 50647 |
| L5 | 2.3 LTR. TURBO | REAR  | 99-04 | 50648 |
| L5 | 2.3 LTR. TURBO | FRONT | 1998  | 50645 |
| L5 | 2.3 LTR. TURBO | REAR  | 1998  | 50646 |
| L5 | 2.4 LTR. TURBO | FRONT | 99-04 | 50647 |
| L5 | 2.4 LTR. TURBO | REAR  | 99-04 | 50648 |
| L5 | 2.4 LTR. TURBO | FRONT | 1998  | 50645 |
| L5 | 2.4 LTR. TURBO | REAR  | 1998  | 50646 |

### S60

|    |                |             |       |       |
|----|----------------|-------------|-------|-------|
| L5 | 2.3 LTR. TURBO | FRONT LEFT  | 01-04 | 50637 |
| L5 | 2.3 LTR. TURBO | FRONT RIGHT | 01-04 | 50638 |
| L5 | 2.3 LTR. TURBO | REAR LEFT   | 01-04 | 50639 |
| L5 | 2.3 LTR. TURBO | REAR RIGHT  | 01-04 | 50640 |
| L5 | 2.4 LTR.       | REAR LEFT   | 01-09 | 50639 |
| L5 | 2.4 LTR.       | REAR RIGHT  | 01-09 | 50640 |
| L5 | 2.4 LTR.       | FRONT LEFT  | 01-05 | 50637 |
| L5 | 2.4 LTR.       | FRONT RIGHT | 01-05 | 50638 |
| L5 | 2.5 LTR.       | FRONT LEFT  | 03-09 | 50637 |
| L5 | 2.5 LTR.       | FRONT RIGHT | 03-09 | 50638 |
| L5 | 2.5 LTR.       | REAR LEFT   | 03-09 | 50639 |
| L5 | 2.5 LTR.       | REAR RIGHT  | 03-09 | 50640 |

### S70

|    |                      |       |       |       |
|----|----------------------|-------|-------|-------|
| L5 | 2.3 LTR. TURBO       | FRONT | 99-00 | 50647 |
| L5 | 2.3 LTR. TURBO       | REAR  | 99-00 | 50648 |
| L5 | 2.3 LTR. TURBO       | FRONT | 1998  | 50645 |
| L5 | 2.3 LTR. TURBO       | REAR  | 1998  | 50646 |
| L5 | 2.4 LTR. INCL. TURBO | FRONT | 99-00 | 50647 |
| L5 | 2.4 LTR. INCL. TURBO | REAR  | 99-00 | 50648 |
| L5 | 2.4 LTR. INCL. TURBO | FRONT | 1998  | 50645 |
| L5 | 2.4 LTR. INCL. TURBO | REAR  | 1998  | 50646 |

### S80

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| L5 | 2.5 LTR. | FRONT LEFT  | 04-06 | 50637 |
| L5 | 2.5 LTR. | FRONT RIGHT | 04-06 | 50638 |
| L5 | 2.5 LTR. | REAR LEFT   | 04-06 | 50639 |
| L5 | 2.5 LTR. | REAR RIGHT  | 04-06 | 50640 |
| L6 | 2.8 LTR. | FRONT LEFT  | 99-01 | 50637 |
| L6 | 2.8 LTR. | FRONT RIGHT | 99-01 | 50638 |
| L6 | 2.8 LTR. | REAR LEFT   | 99-01 | 50639 |
| L6 | 2.8 LTR. | REAR RIGHT  | 99-01 | 50640 |
| L6 | 2.9 LTR. | FRONT LEFT  | 99-05 | 50637 |
| L6 | 2.9 LTR. | FRONT RIGHT | 99-05 | 50638 |
| L6 | 2.9 LTR. | REAR LEFT   | 99-05 | 50639 |
| L6 | 2.9 LTR. | REAR RIGHT  | 99-05 | 50640 |

| CYL | APPLICATION | NOTES | YEAR | KARLYN # |
|-----|-------------|-------|------|----------|
|-----|-------------|-------|------|----------|

## V70

|    |                      |             |       |       |
|----|----------------------|-------------|-------|-------|
| L5 | 2.3 LTR. TURBO       | FRONT       | 99-00 | 50647 |
| L5 | 2.3 LTR. TURBO       | REAR        | 99-00 | 50648 |
| L5 | 2.3 LTR. TURBO       | FRONT       | 1998  | 50645 |
| L5 | 2.3 LTR. TURBO       | REAR        | 1998  | 50646 |
| L5 | 2.3 LTR. TURBO       | FRONT LEFT  | 01-04 | 50637 |
| L5 | 2.3 LTR. TURBO       | FRONT RIGHT | 01-04 | 50638 |
| L5 | 2.3 LTR. TURBO       | REAR LEFT   | 01-04 | 50639 |
| L5 | 2.3 LTR. TURBO       | REAR RIGHT  | 01-04 | 50640 |
| L5 | 2.4 LTR.             | FRONT LEFT  | 01-07 | 50637 |
| L5 | 2.4 LTR.             | FRONT RIGHT | 01-07 | 50638 |
| L5 | 2.4 LTR.             | REAR LEFT   | 01-07 | 50639 |
| L5 | 2.4 LTR.             | REAR RIGHT  | 01-07 | 50640 |
| L5 | 2.4 LTR. INCL. TURBO | FRONT       | 99-00 | 50647 |
| L5 | 2.4 LTR. INCL. TURBO | REAR        | 99-00 | 50648 |
| L5 | 2.4 LTR. INCL. TURBO | FRONT       | 1998  | 50645 |
| L5 | 2.4 LTR. INCL. TURBO | REAR        | 1998  | 50646 |
| L5 | 2.5 LTR.             | FRONT LEFT  | 03-07 | 50637 |
| L5 | 2.5 LTR.             | FRONT RIGHT | 03-07 | 50638 |
| L5 | 2.5 LTR.             | REAR LEFT   | 03-07 | 50639 |
| L5 | 2.5 LTR.             | REAR RIGHT  | 03-07 | 50640 |

## XC70

|    |          |             |       |       |
|----|----------|-------------|-------|-------|
| L5 | 2.5 LTR. | FRONT LEFT  | 03-07 | 50637 |
| L5 | 2.5 LTR. | FRONT RIGHT | 03-07 | 50638 |
| L5 | 2.5 LTR. | REAR LEFT   | 03-07 | 50639 |
| L5 | 2.5 LTR. | REAR RIGHT  | 03-07 | 50640 |

**# 50098**

(HYUNDAI OE #95620-26010,  
95620-26000)



**# 50110**

(HYUNDAI OE #95670-2F100,  
95670-2D150)



**# 50128**

(MINI OE #34-52-6-756-384)



**# 50129**

(MINI OE #34-52-6-756-385)



**# 50181**

(TOYOTA OE #89545-33020,  
89545-32030, 89545-05010)



**# 50201**

(BMW OE #34-52-6-792-897)



**# 50202**

(BMW OE #34-52-6-792-896)



**# 50203**

(BMW OE #34-52-6-752-683)



**# 50204**

(BMW OE #34-52-1-163-027)



**# 50205**

(BMW OE #34-52-1-165-609)



**# 50206**

(BMW OE #34-52-1-164-370)



**# 50207**

(BMW OE #34-52-6-756-376)



**# 50208**

(BMW OE #34-52-1-182-159)



**# 50210**

(BMW OE #34-52-1-182-076)



**# 50211**

(BMW OE #34-52-1-182-077)



**# 50212**

(BMW OE #34-52-1-163-028)



**# 50234**

(MB OE #204-540-01-17)



**# 50236**

(MB OE #210-540-91-08)



**# 50237**

(MB OE #220-540-04-17)



**# 50238**

(MB OE #220-540-18-17)



**# 50242**

(MB OE #211-540-29-17)



**# 50243**

(MB OE #220-540-01-17-64)



**# 50293**

(AUDI/VW OE #WHT-003-859)



**# 50295**

(AUDI/VW OE #WHT-003-858-A,  
1K0-927-808-A)



**# 50302**

(AUDI/VW OE #8E0-927-803-A)



**# 50304**

(AUDI/VW OE #4E0-927-803-F,  
4E0-927-803-D)



**# 50305**

(AUDI/VW OE #4E0-927-804-F,  
4E0-927-804-D)



**# 50307**

(AUDI/VW OE #WHT-003-858)



**# 50309**

(AUDI/VW OE #1J0-927-807-B)



**# 50310**

(AUDI/VW OE #7H0-927-803,  
WHT-003-857)



**# 50311**

(AUDI/VW OE #7L0-927-807-B  
PORSCHE OE #955-606-405-12)



**# 50313**

(AUDI/VW OE #WHT-003-856-A  
PORSCHE OE #955-606-406-12)



**# 50314**

(AUDI/VW OE #8E0-927-803-B)



**# 50315**

(AUDI/VW OE #1J0-927-803)



**# 50316**

(AUDI/VW OE #1J0-927-804)



**# 50318**

(AUDI/VW OE #7H0-927-804,  
WHT-003-856 )



**# 50319**

(AUDI/VW OE #3B0-927-807-C,  
3B0-927-807-B)



**# 50320**

(AUDI/VW OE #1H0-927-807-D)



**# 50322**

(AUDI/VW OE #4B0-927-803-B)



**# 50323**

(AUDI/VW OE #8D0-927-803)



**# 50325**

(AUDI/VW OE #8D0-927-803-D)



**# 50334**

(BMW OE #34-52-6-870-075)



**# 50336**

(BMW OE #34-52-3-420-331)



**# 50338**

(BMW OE #34-52-6-756-380)



**# 50339**

(BMW OE #34-52-6-756-379)



**# 50342**

(BMW OE #34-52-6-760-534,  
34-52-6-771-705)



**# 50343**

(BMW OE #34-52-3-420-330)



**# 50344**

(BMW OE #34-52-6-752-702)



**# 50345**

(BMW OE #34-52-6-771-703)



**# 50346**

(BMW OE #34-52-6-870-076)



**# 50348**

(BMW OE #34-52-6-758-289)



**# 50349**

(BMW OE #34-52-6-870-077)



**# 50350**

(BMW OE #34-52-6-771-702)



**# 50354**

(BMW OE #34-52-6-756-373)



**# 50355**

(BMW OE #34-52-6-756-382)



**# 50433**

(HYUNDAI OE #95670-38100,  
95670-3C100)



**# 50471**

(LAND ROVER OE #SSF000011)



**# 50499**

(MB OE #204-540-03-17)



**# 50500**

(MB OE #211-540-30-17)



**# 50503**

(MB OE #171-540-02-13)





**# 50507**

(MB OE #163-540-07-17)



**# 50508**

(MB OE #163-540-08-17)



**# 50509**

(MB OE #163-540-10-17)



**# 50515**

(MB OE #164-905-83-00)



**# 50524**

(MB OE #221-905-73-00)



**# 50525**

(MB OE #221-905-71-00)



**# 50527**

(MB OE #202-540-26-17)



**# 50604**

(MB OE #203-540-13-17)



**# 50620**

(AUDI/VW OE #8E0-927-807-G)



**# 50637**

(VOLVO OE #30773738)



**# 50638**

(VOLVO OE #30773740)



**# 50639**

(VOLVO OE #30773742)



**# 50640**

(VOLVO OE #30773743)



**# 50645**

(VOLVO OE #6849311)



**# 50646**

(VOLVO OE #9162612)



**# 50647**

(VOLVO OE #9496420)



**# 50648**

(VOLVO OE #9472171)



**# 50651**

(VOLVO OE #3515092)



**# 50653**

(AUDI/VW OE #8D0-927-807-F)



**# 50656**

(AUDI/VW OE #1J0-927-807-D)



**# 50669**

(MB OE #A164-905-82-00,  
A164-540-09-17)



**# 50689**

(HYUNDAI OE #95670-2D050,  
95670-2D000)



**# 50710**

(MB OE #220-540-11-17,  
A220-540-11-17)



**# 50711**

(MB OE #251-905-57-00)



**# 50730**

(MB OE #203-540-14-17)



**# 50991**

(BMW OE #34-52-6-756-375)



**# 50992**

(BMW OE #34-52-1-182-160)



**# 50993**

(BMW OE #34-52-6-756-377)



**# 51312**

(BMW OE #34-52-6-784-902)



**# 51351**

(AUDI/VW OE #WHT-003-864B)



**# 51354**

(BMW OE #34-52-7-853-586)



**# 51358**

(BMW OE #34-52-6-869-293)



**# 51365**

(MB OE #906-905-06-01)



**# 51372**

(BMW OE #34-52-6-869-322)



**# 51410**

(MB OE #211-540-31-17-64)



**# 51412**

(MB OE #221-540-09-17)



**# 51511**

(BMW OE #34-52-6-764-858)



**# 51512**

(BMW OE #34-52-6-764-859)



**# 51513**

(BMW OE #34-52-6-784-901)



**# 51515**

(BMW OE #34-52-6-884-421)



**# 51530**

(MB OE #204-905-29-05)



**# 51562**

(BMW OE #34-52-6-869-292)



**# 51563**

(BMW OE #34-52-6-869-321)



**# 51575**

(BMW OE #34-52-6-771-708)



## CROSS REFERENCE

| ATE            | KARLYN |
|----------------|--------|
| 24.0710-2001.1 | 50208  |
| 24.0710-2002.1 | 50991  |
| 24.0710-2005.1 | 50210  |
| 24.0710-2006.1 | 50211  |
| 24.0710-2007.1 | 50992  |
| 24.0710-2008.1 | 50354  |
| 24.0710-2009.1 | 50207  |
| 24.0710-2011.1 | 50339  |
| 24.0710-2012.1 | 50338  |
| 24.0710-2013.1 | 50128  |
| 24.0710-2020.1 | 50205  |
| 24.0710-2021.1 | 50129  |
| 24.0710-5014.3 | 50325  |
| 24.0711-1146.1 | 50645  |
| 24.0711-1361.3 | 50315  |
| 24.0711-1362.3 | 50316  |
| 24.0711-1365.3 | 50656  |
| 24.0711-5025.3 | 50648  |
| 24.0711-5069.3 | 50310  |
| 24.0711-5070.3 | 50318  |
| 24.0711-5103.3 | 50201  |
| 24.0711-5104.3 | 50202  |
| 24.0711-5175.3 | 50311  |
| 24.0711-5176.3 | 50313  |
| 24.0711-5191.3 | 50349  |
| 24.0711-5271.3 | 50310  |
| 24.0711-5272.3 | 50318  |
| 24.0711-5277.3 | 50201  |
| 24.0711-5278.3 | 50202  |
| 24.0711-5280.3 | 50349  |
| 24.0711-5401.3 | 50311  |
| 24.0711-5402.3 | 50313  |
| 24.0711-6011.3 | 50647  |
| 24.0711-6013.3 | 50638  |
| 24.0711-6037.3 | 50639  |
| 24.0711-6038.3 | 50640  |
| 24.0711-6041.3 | 50203  |
| 24.0711-6042.3 | 50344  |
| 24.0711-6046.3 | 50637  |
| 24.0711-6053.3 | 50730  |
| 24.0711-6054.3 | 50604  |
| 24.0711-6125.3 | 50293  |
|                |        |
|                |        |

| ATE            | KARLYN |
|----------------|--------|
| 24.0711-6126.3 | 50307  |
| 24.0711-6189.3 | 50234  |
| 24.0711-6191.3 | 50499  |
| 24.0711-6197.3 | 50334  |
| 24.0711-6211.3 | 50638  |
| 24.0711-6212.3 | 50639  |
| 24.0711-6213.3 | 50640  |
| 24.0711-6214.3 | 50637  |
| 24.0711-6231.3 | 50293  |
| 24.0711-6232.3 | 50307  |
| 24.0711-6241.3 | 50334  |
| 24.0711-6336.3 | 50295  |
| 24.0721-1191.3 | 50320  |
| 24.0741-1103.3 | 50204  |
| 24.0741-1105.1 | 50646  |
| 24.0741-1107.3 | 50309  |
| 24.0751-1122.3 | 50212  |
| 24.0751-1162.3 | 50527  |
| 24.0751-1179.3 | 50206  |
|                |        |

| BOSCH         | KARLYN |
|---------------|--------|
| 0-265-006-188 | 50237  |
| 0-265-006-569 | 50653  |
| 0-265-006-824 | 50620  |
| 0-265-007-006 | 50238  |
| 0-265-007-620 | 50342  |
| 0-265-007-622 | 50336  |
| 0-265-007-669 | 51511  |
| 0-265-007-928 | 50305  |
| 0-265-007-930 | 50304  |
| 0-265-007-982 | 51312  |
| 0-265-008-526 | 51354  |
| 0-986-594-000 | 50316  |
| 0-986-594-001 | 50315  |
| 0-986-594-002 | 50325  |
| 0-986-594-003 | 50320  |
| 0-986-594-004 | 50309  |
| 0-986-594-008 | 50656  |
| 0-986-594-014 | 50323  |
| 0-986-594-015 | 50204  |
| 0-986-594-016 | 50212  |
|               |        |
|               |        |

FOR REFERENCE PURPOSES ONLY!  
REFER TO OUR MODEL LISTINGS FOR THE CORRECT APPLICATION

## CROSS REFERENCE

| <b>BOSCH</b>  | <b>KARLYN</b> |
|---------------|---------------|
| 0-986-594-017 | <b>50206</b>  |
| 0-986-594-018 | <b>50205</b>  |
| 0-986-594-504 | <b>50310</b>  |
| 0-986-594-505 | <b>50318</b>  |
| 0-986-594-506 | <b>50293</b>  |
| 0-986-594-507 | <b>50307</b>  |
| 0-986-594-508 | <b>50991</b>  |
| 0-986-594-509 | <b>50207</b>  |
| 0-986-594-510 | <b>50208</b>  |
| 0-986-594-511 | <b>50992</b>  |
| 0-986-594-512 | <b>50993</b>  |
| 0-986-594-513 | <b>50203</b>  |
| 0-986-594-524 | <b>50311</b>  |
| 0-986-594-525 | <b>50313</b>  |
| 0-986-594-527 | <b>50201</b>  |
| 0-986-594-528 | <b>50202</b>  |
| 0-986-594-529 | <b>50339</b>  |
| 0-986-594-530 | <b>50338</b>  |
| 0-986-594-536 | <b>50128</b>  |
| 0-986-594-537 | <b>50129</b>  |
| 0-986-594-540 | <b>50334</b>  |
| 0-986-594-541 | <b>50604</b>  |
| 0-986-594-542 | <b>50730</b>  |
| 0-986-594-545 | <b>50236</b>  |
| 0-986-594-548 | <b>51530</b>  |
| 0-986-594-560 | <b>50295</b>  |
| 0-986-594-563 | <b>50500</b>  |
| 0-986-594-570 | <b>50343</b>  |
| 0-986-594-571 | <b>50346</b>  |
| 0-986-594-572 | <b>50349</b>  |
| 0-986-594-574 | <b>50350</b>  |
| 0-986-594-575 | <b>51512</b>  |
| 0-986-594-576 | <b>50499</b>  |
| 0-986-594-606 | <b>51351</b>  |
|               |               |

| <b>OEM</b>    | <b>KARLYN</b> |
|---------------|---------------|
| 163-540-07-17 | <b>50507</b>  |
| 163-540-08-17 | <b>50508</b>  |
| 163-540-10-17 | <b>50509</b>  |
| 164-540-07-17 | <b>50515</b>  |
| 164-905-82-00 | <b>50669</b>  |
| 164-905-83-00 | <b>50515</b>  |
|               |               |

| <b>OEM</b>       | <b>KARLYN</b> |
|------------------|---------------|
| 171-540-02-13    | <b>50503</b>  |
| 1H0-927-807      | <b>50315</b>  |
| 1H0-927-807-D    | <b>50320</b>  |
| 1H0-927-808      | <b>50316</b>  |
| 1J0-927-803      | <b>50315</b>  |
| 1J0-927-804      | <b>50316</b>  |
| 1J0-927-807-B    | <b>50309</b>  |
| 1J0-927-807-D    | <b>50656</b>  |
| 1K0-927-807      | <b>50293</b>  |
| 1K0-927-808      | <b>50307</b>  |
| 1K0-927-808-A    | <b>50295</b>  |
| 202-540-26-17    | <b>50527</b>  |
| 203-540-13-17    | <b>50604</b>  |
| 203-540-14-17    | <b>50730</b>  |
| 204-540-01-17    | <b>50234</b>  |
| 204-540-03-17    | <b>50499</b>  |
| 204-905-29-05    | <b>51530</b>  |
| 204-905-79-00    | <b>51530</b>  |
| 210-540-91-08    | <b>50236</b>  |
| 211-540-10-17    | <b>51410</b>  |
| 211-540-18-17    | <b>50242</b>  |
| 211-540-20-17    | <b>51410</b>  |
| 211-540-21-17    | <b>51410</b>  |
| 211-540-23-17    | <b>50242</b>  |
| 211-540-24-17    | <b>50500</b>  |
| 211-540-29-17    | <b>50242</b>  |
| 211-540-30-17    | <b>50500</b>  |
| 211-540-31-17    | <b>51410</b>  |
| 211-540-31-17-64 | <b>51410</b>  |
| 220-540-01-17    | <b>50243</b>  |
| 220-540-01-17-64 | <b>50243</b>  |
| 220-540-04-17    | <b>50237</b>  |
| 220-540-05-17    | <b>50238</b>  |
| 220-540-11-17    | <b>50710</b>  |
| 220-540-18-17    | <b>50238</b>  |
| 221-540-09-17    | <b>51412</b>  |
| 221-905-02-01    | <b>51412</b>  |
| 221-905-71-00    | <b>50525</b>  |
| 221-905-73-00    | <b>50524</b>  |
| 251-540-11-17    | <b>50711</b>  |
| 251-905-57-00    | <b>50711</b>  |
| 30773738         | <b>50637</b>  |
| 30773740         | <b>50638</b>  |
|                  |               |

FOR REFERENCE PURPOSES ONLY!  
REFER TO OUR MODEL LISTINGS FOR THE CORRECT APPLICATION

## CROSS REFERENCE

| OEM             | KARLYN |
|-----------------|--------|
| 30773742        | 50639  |
| 30773743        | 50640  |
| 34-52-0-025-724 | 50207  |
| 34-52-0-025-726 | 50338  |
| 34-52-1-156-536 | 50993  |
| 34-52-1-163-027 | 50204  |
| 34-52-1-163-028 | 50212  |
| 34-52-1-163-188 | 50204  |
| 34-52-1-164-370 | 50206  |
| 34-52-1-164-651 | 50205  |
| 34-52-1-164-652 | 50206  |
| 34-52-1-165-519 | 50204  |
| 34-52-1-165-532 | 50354  |
| 34-52-1-165-534 | 50991  |
| 34-52-1-165-535 | 50207  |
| 34-52-1-165-573 | 50338  |
| 34-52-1-165-609 | 50205  |
| 34-52-1-181-126 | 50212  |
| 34-52-1-181-971 | 50212  |
| 34-52-1-182-063 | 50212  |
| 34-52-1-182-067 | 50212  |
| 34-52-1-182-076 | 50210  |
| 34-52-1-182-077 | 50211  |
| 34-52-1-182-159 | 50208  |
| 34-52-1-182-160 | 50992  |
| 34-52-2-283-045 | 51354  |
| 34-52-3-402-906 | 50343  |
| 34-52-3-405-906 | 50343  |
| 34-52-3-405-907 | 50336  |
| 34-52-3-420-330 | 50343  |
| 34-52-3-420-331 | 50336  |
| 34-52-6-752-016 | 50339  |
| 34-52-6-752-681 | 50201  |
| 34-52-6-752-682 | 50202  |
| 34-52-6-752-683 | 50203  |
| 34-52-6-752-702 | 50344  |
| 34-52-6-756-373 | 50354  |
| 34-52-6-756-375 | 50991  |
| 34-52-6-756-376 | 50207  |
| 34-52-6-756-377 | 50993  |
| 34-52-6-756-379 | 50339  |
| 34-52-6-756-380 | 50338  |
| 34-52-6-756-382 | 50355  |

| OEM             | KARLYN |
|-----------------|--------|
| 34-52-6-756-384 | 50128  |
| 34-52-6-756-385 | 50129  |
| 34-52-6-758-289 | 50348  |
| 34-52-6-760-045 | 50350  |
| 34-52-6-760-046 | 50345  |
| 34-52-6-760-424 | 50334  |
| 34-52-6-760-534 | 50342  |
| 34-52-6-764-858 | 51511  |
| 34-52-6-764-859 | 51512  |
| 34-52-6-771-702 | 50350  |
| 34-52-6-771-703 | 50345  |
| 34-52-6-771-705 | 50342  |
| 34-52-6-771-708 | 51575  |
| 34-52-6-783-051 | 51563  |
| 34-52-6-784-901 | 51513  |
| 34-52-6-784-902 | 51312  |
| 34-52-6-785-020 | 50334  |
| 34-52-6-785-021 | 50346  |
| 34-52-6-785-022 | 50349  |
| 34-52-6-788-644 | 51562  |
| 34-52-6-788-645 | 51358  |
| 34-52-6-791-225 | 51515  |
| 34-52-6-791-226 | 51372  |
| 34-52-6-792-896 | 50202  |
| 34-52-6-792-897 | 50201  |
| 34-52-6-855-049 | 51562  |
| 34-52-6-855-050 | 51358  |
| 34-52-6-869-292 | 51562  |
| 34-52-6-869-293 | 51358  |
| 34-52-6-869-321 | 51563  |
| 34-52-6-869-322 | 51372  |
| 34-52-6-870-075 | 50334  |
| 34-52-6-870-076 | 50346  |
| 34-52-6-870-077 | 50349  |
| 34-52-6-884-421 | 51515  |
| 34-52-7-841-953 | 51354  |
| 34-52-7-853-586 | 51354  |
| 3515092         | 50651  |
| 3524256         | 50639  |
| 3524257         | 50640  |
| 3B0-927-807-B   | 50319  |
| 3B0-927-807-C   | 50319  |
| 4B0-927-803-B   | 50322  |

FOR REFERENCE PURPOSES ONLY!  
REFER TO OUR MODEL LISTINGS FOR THE CORRECT APPLICATION

## CROSS REFERENCE

| OEM            | KARLYN |
|----------------|--------|
| 4E0-927-803-D  | 50304  |
| 4E0-927-803-F  | 50304  |
| 4E0-927-804-D  | 50305  |
| 4E0-927-804-F  | 50305  |
| 6849311        | 50645  |
| 7H0-927-803    | 50310  |
| 7H0-927-804    | 50318  |
| 7L0-927-807-B  | 50311  |
| 7L0-927-808-B  | 50313  |
| 89545-05010    | 50181  |
| 89545-32030    | 50181  |
| 89545-33020    | 50181  |
| 8D0-927-803    | 50323  |
| 8D0-927-803-B  | 50325  |
| 8D0-927-803-C  | 50325  |
| 8D0-927-803-D  | 50325  |
| 8D0-927-807-F  | 50653  |
| 8E0-927-803-A  | 50302  |
| 8E0-927-803-B  | 50314  |
| 8E0-927-807    | 50319  |
| 8E0-927-807-G  | 50620  |
| 906-540-39-17  | 51365  |
| 906-905-06-01  | 51365  |
| 9162612        | 50646  |
| 9467580        | 50638  |
| 9472170        | 50647  |
| 9472171        | 50648  |
| 9496420        | 50647  |
| 9496961        | 50637  |
| 955-606-405-12 | 50311  |
| 955-606-406-12 | 50313  |
| 95620-26000    | 50098  |
| 95620-26010    | 50098  |
| 95670-2D000    | 50689  |
| 95670-2D050    | 50689  |
| 95670-2D150    | 50110  |
| 95670-2F100    | 50110  |
| 95670-38100    | 50433  |
| 95670-3C100    | 50433  |
| A164-540-09-17 | 50669  |
| A164-905-82-00 | 50669  |
| A204-905-29-05 | 51530  |
| A204-905-79-00 | 51530  |

| OEM            | KARLYN |
|----------------|--------|
| A211-540-10-17 | 51410  |
| A211-540-20-17 | 51410  |
| A211-540-21-17 | 51410  |
| A211-540-31-17 | 51410  |
| A220-540-11-17 | 50710  |
| A221-540-09-17 | 51412  |
| A221-905-02-01 | 51412  |
| A906-540-39-17 | 51365  |
| A906-905-06-01 | 51365  |
| SSF000011      | 50471  |
| WHT-003-856    | 50318  |
| WHT-003-856-A  | 50313  |
| WHT-003-856-B  | 50313  |
| WHT-003-857    | 50310  |
| WHT-003-857-B  | 50311  |
| WHT-003-858    | 50307  |
| WHT-003-858-A  | 50295  |
| WHT-003-859    | 50293  |
| WHT-003-864A   | 51351  |
| WHT-003-864B   | 51351  |

| VDO           | KARLYN |
|---------------|--------|
| 340804075001Z | 50323  |
| A2C59512216Z  | 50206  |
| A2C59512225Z  | 50204  |
| A2C59512226Z  | 50646  |
| A2C59513052   | 50320  |
| A2C59513064   | 50203  |
| A2C59513066   | 50202  |
| A2C59513285   | 50205  |
| A2C59513385   | 50201  |
| S103518001Z   | 50210  |
| S103518002Z   | 50208  |
| S103519101Z   | 50211  |
| S105705001Z   | 50315  |
| S105705002Z   | 50316  |
| S107023001Z   | 50309  |
| S107114001Z   | 50354  |
| S107116001Z   | 50991  |
| S107117001Z   | 50207  |
| S107118001Z   | 50992  |
| S107480002Z   | 50339  |
| S107611001Z   | 50128  |
| S107613001Z   | 50129  |

[View other replacement brake parts made by Karlyn STI on our website.](#)