

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

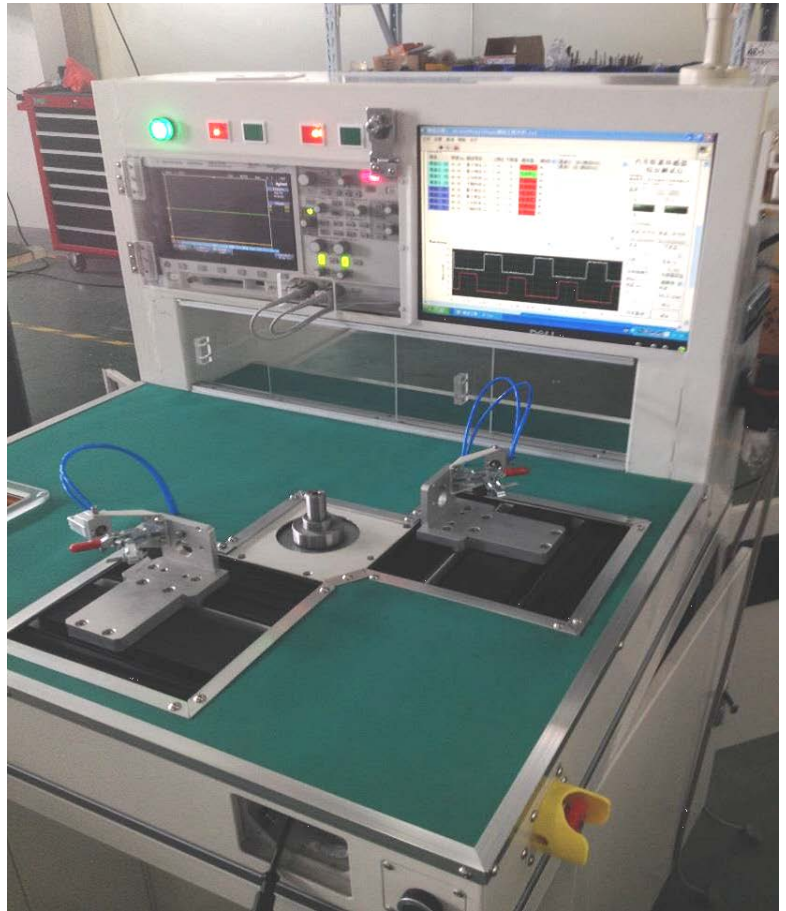
Electrical test

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 Ω
- 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°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.



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CYL	APPLICATION	NOTES	YEAR	KARLYN #
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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
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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 #
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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 #
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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
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Q3 QUATTRO

L4	2.0 LTR. TURBO	REAR RIGHT	15-16	50295
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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 #
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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 #
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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
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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 #
318Ti				
L4	1.8, 1.9 LTR.	FRONT	95-98	50204
320i				
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
320i xDrive				
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
323Ci				
L6	2.5 LTR.	FRONT	2000	50205
L6	2.5 LTR.	REAR	2000	50206
323i				
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
323iS				
L6	2.5 LTR.	FRONT	98-99	50204
L6	2.5 LTR.	REAR	98-99	50212
325Ci				
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
325i				
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
325iS				
L6	2.5 LTR.	REAR	92-95	50212
L6	2.5 LTR.	FRONT	87-95	50204
325xi				
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 #
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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 #
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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 #
335is				
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
335xi				
L6	3.0 LTR. TURBO	FRONT	07-08	51511
L6	3.0 LTR. TURBO	REAR	07-08	51512
340i				
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
340i GT xDrive				
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
340i xDrive				
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
428i				
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
428i GRAN COUPE				
L4	2.0 LTR.	REAR (Adaptive Cruise Control)	15-16	51372
L4	2.0 LTR.	REAR (excl. Adaptive Cruise Control)	15-16	51515
428i xDrive				
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
428i xDrive GRAN COUPE				
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
430i				
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
430i GRAN COUPE				
L4	2.0 LTR.	REAR (Adaptive Cruise Control)	17-19	51372
L4	2.0 LTR.	REAR (excl. Adaptive Cruise Control)	17-19	51515
430i 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

CYL	APPLICATION	NOTES	YEAR	KARLYN #
430i xDrive GRAN COUPE				
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
435i				
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
435i GRAN COUPE				
L6	3.0 LTR. TURBO	REAR (Adaptive Cruise Control)	2015	51372
L6	3.0 LTR. TURBO	REAR (excl. Adaptive Cruise Control)	15-16	51515
435i xDrive				
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
435i xDrive GRAN COUPE				
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
440i				
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
440i GRAN COUPE				
L6	3.0 LTR.	REAR (Adaptive Cruise Control)	17-19	51372
L6	3.0 LTR.	REAR (excl. Adaptive Cruise Control)	17-19	51515
440i xDrive				
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
440i xDrive GRAN COUPE				
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
525i				
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
525xi				
L6	3.0 LTR.	REAR	06-07	50345

CYL	APPLICATION	NOTES	YEAR	KARLYN #
528i				
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
528i xDrive				
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
528xi				
L6	3.0 LTR.	REAR	2008	50345
530i				
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
530xi				
L6	3.0 LTR.	REAR	06-07	50345
535d				
L6	3.0 LTR. DIESEL	REAR	14-16	51513
535d xDrive				
L6	3.0 LTR. DIESEL	FRONT	14-16	51312
L6	3.0 LTR. DIESEL	REAR	14-16	51513
535i				
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
535i GT xDrive				
L6	3.0 LTR.	FRONT	12-17	51312
535i XDRIVE				
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
535xi				
L6	3.0 LTR. TURBO	REAR	2008	50345

CYL	APPLICATION	NOTES	YEAR	KARLYN #
540i				
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
545i				
V8	4.4 LTR.	FRONT	04-05	50350
V8	4.4 LTR.	REAR	04-05	50345
550i				
V8	4.4 LTR.	REAR	11-16	51513
V8	4.8 LTR.	FRONT	06-10	50350
V8	4.8 LTR.	REAR	06-10	50345
550i GT xDrive				
V8	4.4 LTR. TURBO	FRONT	10-17	51312
550i xDrive				
V8	4.4 LTR.	FRONT	12-16	51312
V8	4.4 LTR.	REAR	11-12	51513
640i				
L6	3.0 LTR.	REAR	12-18	51513
640i GRAN COUPE				
L6	3.0 LTR.	REAR	2019	51513
640i xDrive				
L6	3.0 LTR.	FRONT	14-18	51312
L6	3.0 LTR.	REAR	14-17	51513
640i xDrive GRAN COUPE				
L6	3.0 LTR.	REAR	2019	51513
L6	3.0 LTR.	FRONT	14-19	51312
645Ci				
V8	4.4 LTR.	FRONT	04-05	50350
V8	4.4 LTR.	REAR	04-05	50345
650i				
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
650i GRAN COUPE				
V8	4.4 LTR.	REAR	2019	51513
650i xDrive				
V8	4.4 LTR.	FRONT	12-18	51312
V8	4.4 LTR.	REAR	12-18	51513
650i xDrive GRAN COUPE				
V8	4.4 LTR.	FRONT	13-18	51312

CYL	APPLICATION	NOTES	YEAR	KARLYN #
740i				
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
740iL				
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
740Ld xDrive				
L6	3.0 LTR.	REAR	2015	51509
L6	3.0 LTR. DIESEL	FRONT	2015	51312
740Li				
L6	3.0 LTR.	REAR	11-15	51509
740Li xDrive				
L6	3.0 LTR.	FRONT	13-15	51312
L6	3.0 LTR.	REAR	13-15	51509
745i				
V8	4.4 LTR.	FRONT, From 03/2003 on	03-05	51575
V8	4.4 LTR.	FRONT, Up To 02/2003	02-03	50348
745Li				
V8	4.4 LTR.	FRONT, From 03/2003 on	03-05	51575
V8	4.4 LTR.	FRONT, Up To 02/2003	02-03	50348
750i				
V8	4.4 LTR.	REAR	09-15	51509
V8	4.8 LTR.	FRONT	06-08	51575
750i xDrive				
V8	4.4 LTR.	FRONT	10-15	51312
V8	4.4 LTR.	REAR	10-15	51509
750iL				
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
750Li				
V8	4.4 LTR.	REAR	09-15	51509
V8	4.8 LTR.	FRONT	06-08	51575
750Li xDrive				
V8	4.4 LTR.	FRONT	10-15	51312
V8	4.4 LTR.	REAR	10-15	51509
760i				
V12	6.0 LTR.	FRONT	04-06	51575

CYL	APPLICATION	NOTES	YEAR	KARLYN #
760Li				
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
ACTIVEHYBRID				
L6	3.0 LTR.	REAR	13-15	51509
ACTIVEHYBRID 3				
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
ACTIVEHYBRID 5				
L6	3.0 LTR.	REAR	12-16	51513
ALPINA B6 xDrive GRAN COUPE				
V8	4.4 LTR.	FRONT	15-18	51312
V8	4.4 LTR.	REAR	15-18	51513
ALPINA B7				
V8	4.4 LTR.	FRONT	07-08	51575
ALPINA B7 xDrive				
V8	4.4 LTR.	FRONT	12-15	51312
V8	4.4 LTR.	REAR	11-15	51509
ALPINA B75				
V8	4.4 LTR.	REAR	11-15	51509
ALPINA B7L				
V8	4.4 LTR.	FRONT	2011	51312
V8	4.4 LTR.	REAR	11-15	51509
ALPINA B7L xDrive				
V8	4.4 LTR.	FRONT	11-15	51312
V8	4.4 LTR.	REAR	11-15	51509
M2				
L6	3.0 LTR.	REAR (Adaptive Cruise Control)	16-19	51372
M235i				
L6	3.0 LTR.	FRONT (excl. Adaptive Cruise Control)	14-16	51514
L6	3.0 LTR.	REAR (excl. Adaptive Cruise Control)	14-16	51515
M235i xDrive				
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
M240i				
L6	3.0 LTR.	REAR (Adaptive Cruise Control)	17-19	51372
L6	3.0 LTR.	REAR (excl. Adaptive Cruise Control)	17-19	51515
M240i xDrive				
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 #
M3				
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
M4				
L6	3.0 LTR.	REAR (Adaptive Cruise Control)	15-19	51372
M5				
V8	4.4 LTR.	REAR	13-16	51513
V8	5.0 LTR.	FRONT	00-03	50991
V8	5.0 LTR.	REAR	00-03	50207
M6				
V8	4.4 LTR.	REAR	12-17	51513
M6 GRAN COUPE				
V8	4.4 LTR.	REAR	2019	51513
X3				
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
X4				
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 #
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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
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XG350

V6	3.0 LTR.	FRONT RIGHT	02-05	50433
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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 #
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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
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MERCEDES-BENZ

B ELECTRIC DRIVE

		ELECTRIC	2015	51416
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B250e

		ELECTRIC	16-17	51416
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C220

L4	2.2 LTR.	REAR	94-96	50527
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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 #
C250				
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
C280				
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
C300				
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
C32 AMG				
V6	3.2 LTR.	REAR LEFT	02-04	50604
V6	3.2 LTR.	REAR RIGHT	02-04	50730
C320				
V6	3.2 LTR.	REAR LEFT	01-05	50604
V6	3.2 LTR.	REAR RIGHT	01-05	50730
C350				
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
C36 AMG				
V6	3.6 LTR.	REAR	95-97	50527
C55 AMG				
V6	5.5 LTR.	REAR LEFT	05-06	50604
V6	5.5 LTR.	REAR RIGHT	05-06	50730
C63				
V8	6.3 LTR.	REAR, w/o Black Series Code P98	08-15	50499
CL500				
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
CL55 AMG				
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
CL550				
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 #
CL600				
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
CL63 AMG				
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
CL65 AMG				
V12	6.0 LTR.	FRONT	08-14	50525
V12	6.0 LTR. TURBO	REAR, from 07/31/09	09-14	51412
CLA250				
L4	2.0 LTR.	REAR	14-19	51416
CLA45 AMG				
L4	2.0 LTR.	REAR	14-19	51416
CLK320				
V6	3.2 LTR.	REAR LEFT	04-05	50604
V6	3.2 LTR.	REAR RIGHT	04-05	50730
CLK350				
V6	3.5 LTR.	REAR LEFT	06-09	50604
V6	3.5 LTR.	REAR RIGHT	06-09	50730
CLK500				
V8	5.0 LTR.	REAR LEFT	03-06	50604
V8	5.0 LTR.	REAR RIGHT	03-06	50730
CLK55				
V8	5.5 LTR.	REAR LEFT	03-06	50604
V8	5.5 LTR.	REAR RIGHT	03-06	50730
CLK550				
V8	5.5 LTR.	REAR LEFT	07-09	50604
V8	5.5 LTR.	REAR RIGHT	07-09	50730
CLK63				
V8	6.3 LTR.	REAR LEFT	07-09	50604
V8	6.3 LTR.	REAR RIGHT	07-09	50730
CLS500				
V8	5.0 LTR.	FRONT	2006	50242
V8	5.0 LTR.	REAR	2006	50500
CLS55 AMG				
V8	5.5 LTR.	FRONT	2006	50242
V8	5.5 LTR.	REAR	2006	50500
CLS550				
V8	5.5 LTR.	REAR	07-11	50500
V8	5.5 LTR.	FRONT	07-10	50242

CYL	APPLICATION	NOTES	YEAR	KARLYN #
CLS63				
V8	6.3 LTR.	REAR	07-11	50500
CLS63 AMG				
V8	6.3 LTR.	FRONT	07-11	50242
E300				
L6	3.0 LTR.	FRONT RIGHT	96-99	50236
E320				
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
E350				
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
E420				
V8	4.2 LTR.	FRONT RIGHT	1997	50236
E430				
V8	4.3 LTR.	FRONT RIGHT	98-02	50236
E500				
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
E55 AMG				
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
E550				
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
E63				
V8	6.3 LTR.	REAR	07-09	50500
E63 AMG				
V8	6.3 LTR.	FRONT	07-09	50242
GL320				
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 #
GL350				
V6	3.0 LTR. TURBO DIESEL	FRONT	10-12	50669
V6	3.0 LTR. TURBO DIESEL	REAR	10-12	50515
GL450				
V8	4.6 LTR.	REAR	07-12	50515
GL450 AWD				
V8	4.6 LTR.	FRONT	07-12	50669
GL550				
V8	5.5 LTR.	REAR	08-12	50515
GL550 AWD				
V8	5.5 LTR.	FRONT	08-12	50669
GLA250				
L4	2.0 LTR.	REAR	15-19	51416
GLA45 AMG				
L4	2.0 LTR.	REAR	15-19	51416
ML320				
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
ML350				
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
ML430				
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
ML450				
V6	3.5 LTR.	FRONT	10-11	50669
V6	3.5 LTR.	REAR	10-11	50515
ML500				
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
ML55 AMG				
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
ML550				
V8	5.5 LTR.	FRONT	08-11	50669
V8	5.5 LTR.	REAR	08-11	50515

CYL	APPLICATION	NOTES	YEAR	KARLYN #
ML63 AMG				
V8	6.3 LTR.	FRONT	07-11	50669
V8	6.3 LTR.	REAR	07-11	50515
R320				
V6	3.0 LTR. TURBO DIESEL	FRONT	07-09	50711
V6	3.0 LTR. TURBO DIESEL	REAR	07-09	50515
R350				
V6	3.5 LTR.	FRONT	06-12	50711
V6	3.5 LTR.	REAR	06-12	50515
R500				
V8	5.0 LTR.	FRONT	06-07	50711
V8	5.0 LTR.	REAR	06-07	50515
R63				
V8	6.3 LTR.	FRONT	2007	50711
V8	6.3 LTR.	REAR	2007	50515
S350				
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
S400				
V6	3.5 LTR.	FRONT	10-13	50525
V6	3.5 LTR.	REAR LEFT	10-13	50524
S400 HYBRID				
V6	3.5 LTR.	REAR	10-13	51412
S430				
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
S500				
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
S55 AMG				
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
S550				
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 #
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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
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SLK300

V6	3.0 LTR.	REAR RIGHT, From 12/01/2009 on	10-11	50503
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SLK350

V6	3.5 LTR.	REAR RIGHT, From 12/01/2009 on	10-11	50503
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SLK55 AMG

V8	5.5 LTR.	REAR RIGHT, From 12/01/2009 on	2010	50503
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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 #
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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
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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
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CYL	APPLICATION	NOTES	YEAR	KARLYN #
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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
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CYL	APPLICATION	NOTES	YEAR	KARLYN #
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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
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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
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CYL	APPLICATION	NOTES	YEAR	KARLYN #
GTI				
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
JETTA				
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 #
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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 #
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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
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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
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960

L6	2.9 LTR.	FRONT	92-94	50651
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CYL	APPLICATION	NOTES	YEAR	KARLYN #
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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 #
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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

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

OEM	KARLYN
163-540-07-17	50507
163-540-08-17	50508
163-540-10-17	50509
164-540-07-17	50515
164-905-82-00	50669
164-905-83-00	50515

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

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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

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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