

50⁺ yıl/years



2017 «
YENİ/NEW

KARDEŞ

Elektrik Sanayi ve Ticaret A.Ş.

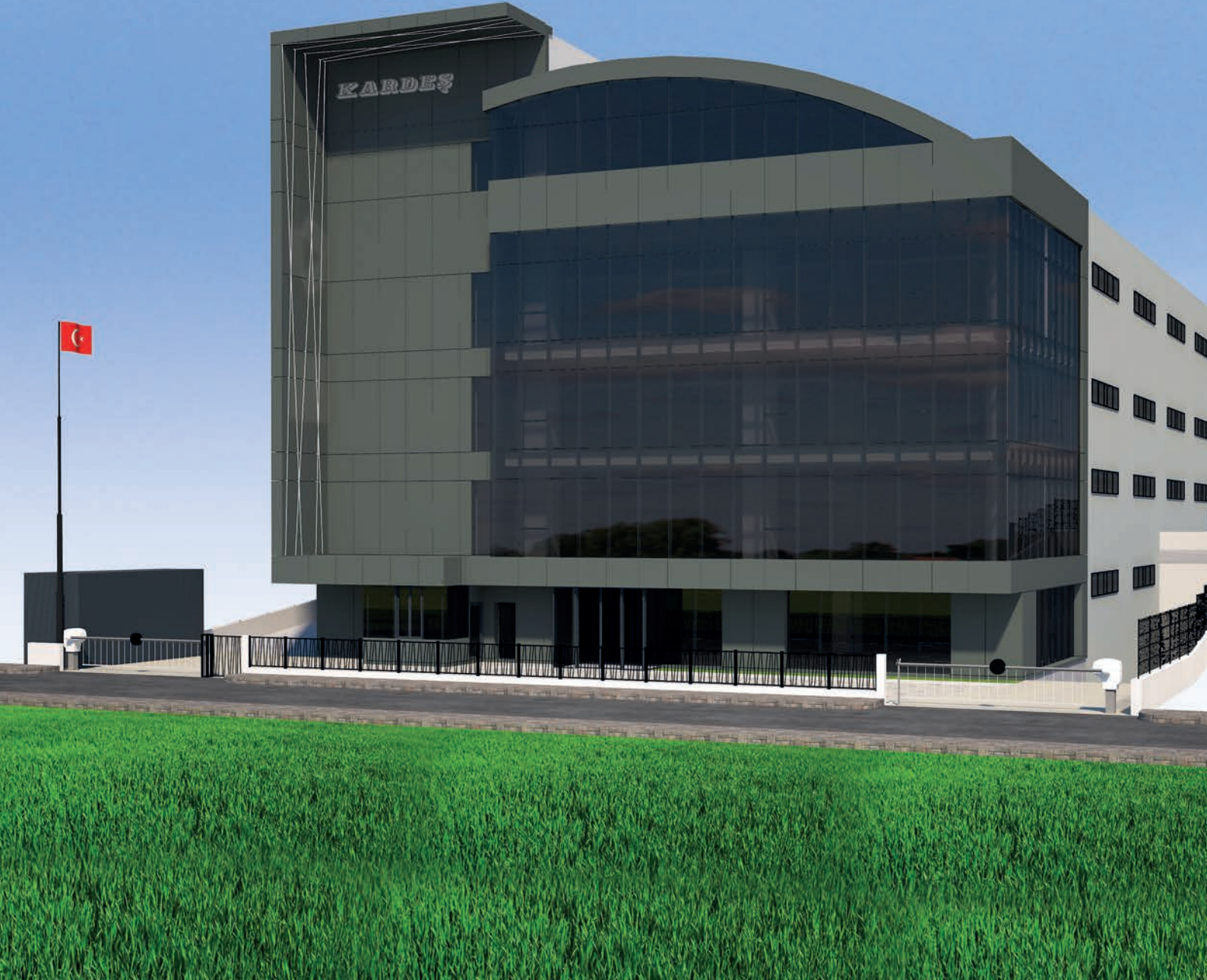
KÖMÜR YUVALARI
BRUSH HOLDERS

Taşınyyoruz...

Temmuz 2017'den itibaren Akpınar-Hadımköy'de 12.500 m² alan üzerinde kurulu yeni Fabrikamız'da sizlere hizmet vermeye devam edeceğiz.

Köklerini geçmişten alan sanayici yetkinliğimiz ile gelecek için yenilenerek 50+ yıldır Türk Sanayi'ne verdiğimiz hizmet kalitesini sürekli yukarılara taşıyarak en iyiye ulaşmak ilk hedefimizdir.

Yeni Fabrikamız



KÖMÜR YUVALARI / BRUSH HOLDERS

SİPARİŞ KODU / ORDER CODE

MARŞ MOTORU KÖMÜR YUVALARI / STARTER BRUSH HOLDERS

BOSCH TİPİ KÖMÜR YUVALARI BOSCH TYPE BRUSH HOLDERS

Sayfa / Page

BO 2154	5
BO 2155	5
BO 2211	6
BO 2212	6
BO 2432	7
BO 2433	7

DELCO REMY TİPİ KÖMÜR YUVALARI

DELCO REMY TYPE BRUSH HOLDERS

DR 0111	8
DR 9121	8

LETRİKA TİPİ KÖMÜR YUVALARI

LETRİKA TYPE BRUSH HOLDERS

LE 0336	9
LE 0752	9
LE 0994	10

LUCAS TİPİ KÖMÜR YUVALARI

LUCAS TYPE BRUSH HOLDERS

LU 0751	11
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NİPPON DENSO TİPİ KÖMÜR YUVALARI

NİPPON DENSO TYPE BRUSH HOLDERS

ND 2012	12
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VALEO TİPİ KÖMÜR YUVALAR

VALEO TYPE BRUSH HOLDERS

VA 1443	13
VA 1444	13

ÇAPRAZ KARŞILAŞTIRMA LİSTESİ / CROSS REFERENCE LIST

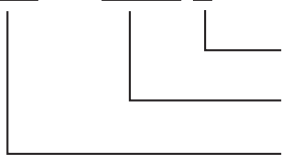
14



KÖMÜR YUVALARI / *BRUSH HOLDERS*

ÜRÜN KODLAMA SİSTEMATİĞİ / *ABBREVIATIONS*

BO 1581



KONUMLAMA / *POSITIONING*

KÖMÜR REFERANS NO / *BRUSH REFERENCE NUMBER*

ÜRETİCİ REFERANSI / *PRODUCER REFERENCE* **BO** : BOSCH

DR : DELCO-REMY

FI : FIAT

FO : FORD

HI : HITACHI

LE : LETRIKA

LU : LUCAS

MA : MARELLI

MI : MITSUBISHI

ND : NIPPON DENSO

VA : VALEO



OTO KÖMÜRLERİ / *CARBON BRUSHES*

KISALTMA TANIMLARI / *ABBREVIATIONS*

H : 24 VOLT

O : PABUÇSUZ / *WITHOUT TERMINAL*

S : YAY İLAVELİ / *WITH SPRING*

V : DİK BASKI / *VERTICAL PRESSED*

CU : BAKIRLI / *HIGH COPPER DENSITY* *

*Soğuk iklim ve LPG'li araçlar için / *For cold climates and vehicles with LPG applications*

BO 2154

BSX 231-232-215
6.0x18x11.0/12.5

12 Volt

UYGUN OEM NO / REPLACING OE-REF
 1 004 336 515, 1 004 336 554, 1 004 336 661, 1 004 336 755, 1 004 336 892

MOTOR NO / UNIT NO
 0 001 115 022, 0 001 115 023

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL
PEUGEOT 208 1.2L 2012 ->
 2008 1.2L 2013 ->
VW PHAETON 3.2L 2002 - 2008

BO 2155

BSX 231-232-215
6.0x18x11.0/12.5

12 Volt

UYGUN OEM NO / REPLACING OE-REF
 0 001 123 044

MOTOR NO / UNIT NO
 1 004 336 523, 1 004 336 558, 1 004 336 653, 1 004 336 700, 1 004 336 759

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL
SEAT ALTEA 2.0 TDI 2004 - 2015
 ALTEA XL 2.0 TDI 2006 - 2015
SKODA OCTAVIA 2.0 TDI 2010 - 2013
VW GOLF VI 2.0 TDI 2010 - 2013
 TRANSPORTER 1.9/2.0 TDI
 2009 - 2016

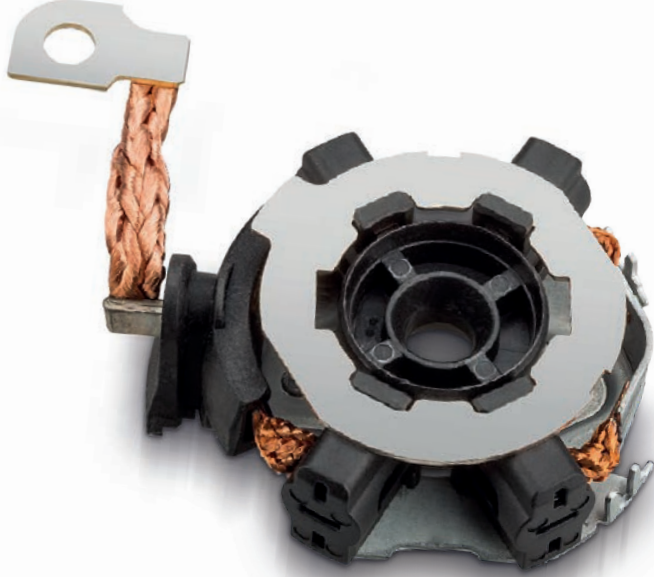
BO 2211**BSX 220-221**
6x18x14.2/15.7**12 Volt****UYGUN OEM NO / REPLACING OE-REF**
1 004 336 549, 1 004 336 619, 1 004 336 750, 1 004 336 878**MOTOR NO / UNIT NO**

0 001 125 007, 0 001 125 008, 0 001 125 021, 0 001 125 022, 0 001 125 031, 0 001 125 032, 0 001 125 042, 0 001 125 043, 0 001 125 046, 0 001 125 047, 0 001 125 051, 0 001 125 052, 0 001 125 055, 0 001 125 056, 0 001 125 600, 0 001 125 601

4 KÖMÜRLÜ / WITH 4 BRUSHES**ARAÇ MODELİ / VEHICLE MODEL****AUDI** A2 1.4 TDI 1999 - 2005
A3 1.9 TDI 1996 - 2003
SEAT CORDOBA 1.4 TDI 2002 - 2004,
CORDOBA 1.9 TDI 1996 - 2004
IBIZA 1.4 TDI 2002 - 2004
IBIZA 1.9 TDI 1996 - 2004
LEON 1.9 TDI 1999 - 2012
TOLEDO 1.9 TDI 1994 - 2003
SKODA OCTAVIA 1.9 TDI 1996 - 2006
VW BORA 1.9 TDI 1999 - 2006
CADDY 1.9 TDI 1996 - 2005
GOLF III 1.9 TDI 1996 - 2000
GOLF IV 1.9 TDI 1996 - 2006**BO 2212****BSX 220-221**
6x18x14.2/15.7**12 Volt****UYGUN OEM NO / REPLACING OE-REF**
1 007 010 124, 1 007 010 135**MOTOR NO / UNIT NO**

0 001 124 011, 0 001 124 012, 0 001 124 013, 0 001 124 014, 0 001 124 022, 0 001 124 023

4 KÖMÜRLÜ / WITH 4 BRUSHES**ARAÇ MODELİ / VEHICLE MODEL****AUDI** A2 1.2 TDI 2003 - 2005
VW GOLF III 1.6L/2.0L 1993 - 2000
GOLF IV 1.6L 1998 - 2001

BO 2432

BSX 228-243
5.25x18x12.7/14.2

12 Volt

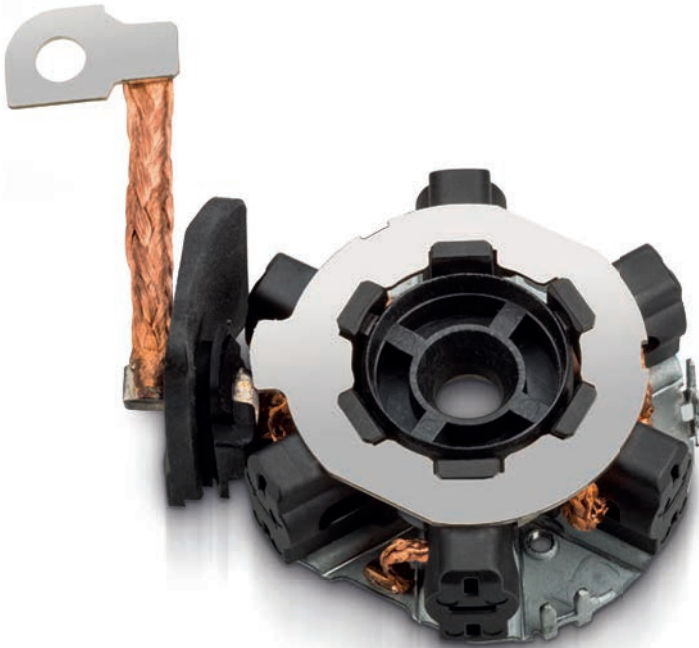
UYGUN OEM NO / REPLACING OE-REF
1 004 336 699

MOTOR NO / UNIT NO
0 001 139 017, 0 001 139 018, 0 001 139
019, 0 001 139 020

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

AUDI A4 2.0 TDI 2007 ->
A5 2.0 TDI 2008 ->
A6 2.0 TDI 2011 ->
Q5 2.0 TDI 2008 ->

BO 2433

BSX 235-228-243
5.25x18x12.7/14.2

12 Volt

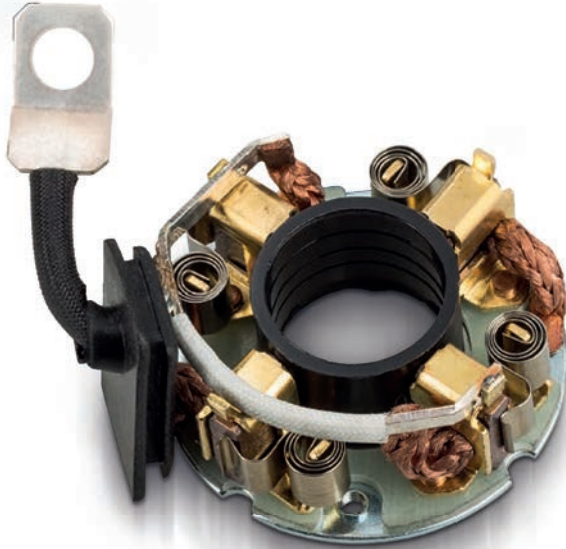
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1 004 336 669

MOTOR NO / UNIT NO
0 001 139 045, 0 001 139 046, 0 001 139
049, 0 001 139 050, 0 001 139 053, 0 001
139 054

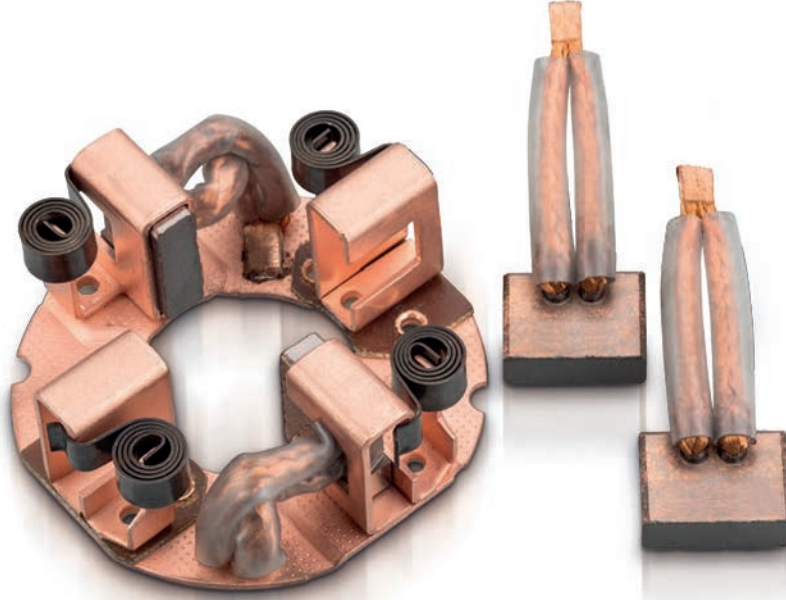
4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

AUDI A8 6.3L 2011 ->

DR 0111**K 011**
5x15x12.5**12 Volt****UYGUN OEM NO / REPLACING OE-REF****MOTOR NO / UNIT NO**8000048, 8000180, 9000902, 9000932,
9000934, 9000967, 96550792**4 KÖMÜRLÜ / WITH 4 BRUSHES****ARAÇ MODELİ / VEHICLE MODEL****A.ROMEO** 159 1.8 MFI 2007 - 2011
CHEVROLET AVEO 1.6L 2011 ->
CRUZE 1.6L 2009 - 2016
CRUZE 1.8L 2011 - 2016
OPEL ASTRA G 1.6L 2004 - 2005
ASTRA H 1.6L/1.8L 2004 -
2009
ASTRA J 1.6L/1.8L 2009 - 2015
CORSA D 1.6L 2007 - 2014
INSIGNIA 1.6L/1.8L 2008 - 2017
MERIVA A 1.6L 2006 - 2012
MOKKA 1.8L 2013 ->
VECTRA C 1.8L 2006 - 2008
ZAFIRA B 1.6L/1.8L 2006 - 2014
ZAFIRA C 1.8L 2011 ->**DR 9121****RX 912**
6x19x16**12 Volt****UYGUN OEM NO / REPLACING OE-REF**
10475602**MOTOR NO / UNIT NO**8000032, 8000269, 8000321, 9000786,
9000798, 9000804, 9000805, 9000806,
9000812, 9000819, 9000820, 9000821,
9000822, 9000827, 9000834, 9000835,
9000844, 9000850, 9000851, 9000853,
9000860, 9000861, 9000862, 9000863,
9000864, 9000865, 9000866, 9000899,
9000936, 9000952, 9000965, 96843574**4 KÖMÜRLÜ / WITH 4 BRUSHES****ARAÇ MODELİ / VEHICLE MODEL****CITROEN** JUMPER 2.8 HDI 2002 - 2006
FIAT DUCATO 2.3 JTD 2002 ->
DUCATO 2.8 JTD 2002 - 2006
DUCATO 2.8 TDI 2000 - 2006
DUCATO 2.3 M.JET 2006 ->
HYUNDAI IX35 2.0 CRDI 2010 - 2013
SANTA FE 2.2 CRDI 2009 - 2013
KIA SORENTO 2.0/2.2 CRDI 2009 - 2013
SPORTAGE 2.0 CRDI 2010 - 2014
PEUGEOT BOXER 2.8 HDI 2002 ->

LE 0336



LET 16.908.337
9.9x24.8x18.8

12 Volt

UYGUN OEM NO / REPLACING OE-REF
16908336

MOTOR NO / UNIT NO

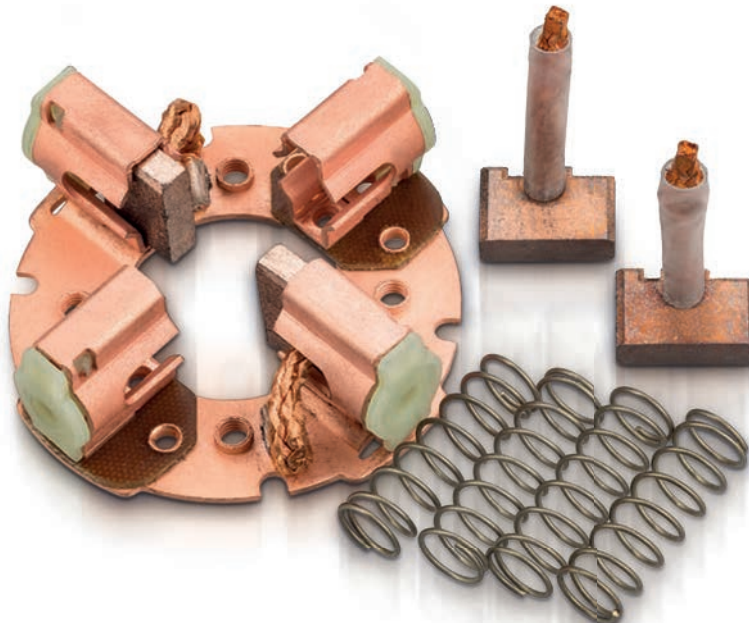
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4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

BOBCAT	İŞ MAKİNESİ
FIAT	TRAKTÖR
CASE	
CLAAS	ARION SERİSİ TRAKTÖR
J. DEERE	B.DÖVER/TRAKTÖR
JCB	TRAKTÖR/İŞ MAKİNESİ
M. FERGUSON	
N. HOLLAND	TARIM MAKİNESİ/TRAKTÖR
RENAULT	ARES/ERGOS SERİSİ TRAKTÖR
STEYR	TRAKTÖR

LE 0752



LET 16.908.753
6x21.8x15

12 Volt

UYGUN OEM NO / REPLACING OE-REF
16908752

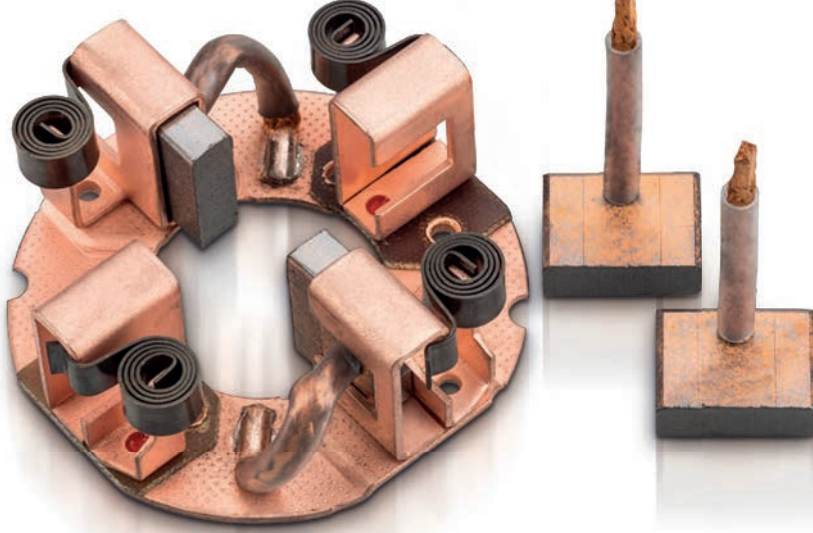
MOTOR NO / UNIT NO

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4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

ATLAS ÇOPCO	JENERATÖR
ERKUNT	TRAKTÖR
HATTAT	A SERİSİ
HIDROMEK	İŞ MAKİNESİ
J. DEERE	TRAKTÖR
M. FERGUSON	TRAKTÖR
VALTRA	TRAKTÖR
ZETOR	TRAKTÖR

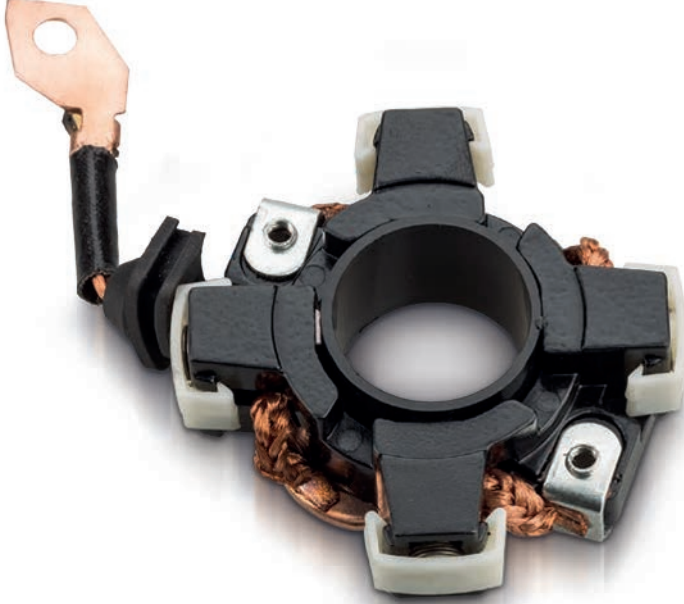
LE 0994**LET 16.908.995**
9,5x32x22**24 Volt****UYGUN OEM NO / REPLACING OE-REF**
16908994**MOTOR NO / UNIT NO**

11130728, 11130729, 11130730, 11130842,
11130944, 11131150, 11131214, 11131254,
11131274, 11131316, 11131335, 11131359,
11131376, 11131452, 11131501, 11131524,
11131564, 11131638, 11131648, 11131691,
11131734, 11131770, 11131775, 11131776,
11131846, 11131863, 11131865, 11131881,
11131882, AZF4106, AZF4121, AZF4137,
AZF4163, AZF4169, AZF4191, AZF4198,
AZF4199, AZF4201, AZF4230, AZF4232,
AZF4237, AZF4238, AZF4266, AZF4507,
AZF4508, AZF4509, AZF4515, AZF4527,
AZF4554, AZF4571, AZF4573, AZF4581,
AZF4588, AZF4594, AZF4617, AZF4646,
AZF4653, AZF4672

4 KÖMÜRLÜ / WITH 4 BRUSHES**ARAÇ MODELİ / VEHICLE MODEL**

JCB NA/TC/TCA/TCAE SERİLERİ
JS130NL-NLC
JS210LC/JS220/JS235 EKSKAVATÖR
CX/SS/CF/ICX/HF SERİLERİ BEKOLODER
180T-HF/190T-HF
8008CTS/9030ZTS

LU 0751



LASX 75

6,8x13,8x9,4

12 Volt

UYGUN OEM NO / REPLACING OE-REF

054291125010, 054292603010, 54290789, 5
4290790, 54291125, 54292603

MOTOR NO / UNIT NO

2110-3708010, 5702.3708, 63226800010,
63226801010, 63226803010, 63226804010,
63226814010, 63226820010, 63226823010,
63226824010, 63226834010, 63226836010,
63226837010, 63226838010, 63226842010,
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26722, 26801, 26804, 26805, 26806, 26807,
26809, 26810, 26812, 26813, 26814, 26815,
26816, 26820, 26823, 26824, 26827, 26829,
26830, 26831, 26832, 26833, 26834, 26835,
26836, 26837, 26841, 26845, 26847

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

LADA

VEGA 1.5L 1997 - 2007

SAMARA 1.5L 1998 - 2004

ND 2012**HYUNDAI ACCENT**
5x13x12**12 Volt****UYGUN OEM NO / REPLACING OE-REF****MOTOR NO / UNIT NO**1195925, 36100-2A000, 36100-2A100,
36100-2A300**4 KÖMÜRLÜ / WITH 4 BRUSHES****ARAÇ MODELİ / VEHICLE MODEL****HYUNDAI** ACCENT BLUE 1.6 CRDI 2011-2017

ACCENT ERA 1.5 CRDI 2005 - 2011

I20 1.4 CRDI/1.6 CRDI 2008 ->

I30 1.6 CRDI 2007 - 2016

IX20 1.4 CRDI/1.6 CRDI 2010 ->

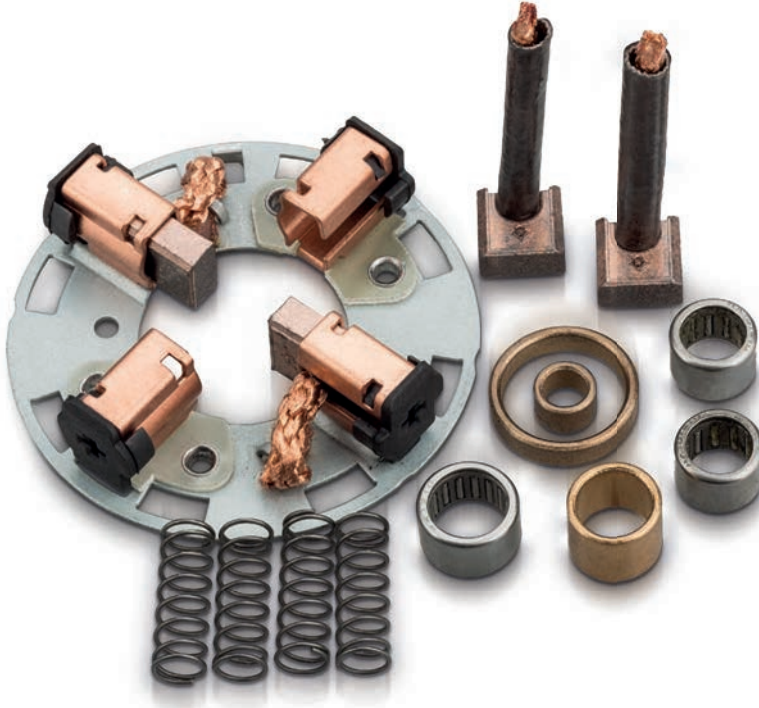
KIA

SOUL 1.6 CRDI 2009 ->

CEED 1.6 CRDI 2006 ->

VENGA 1.6 CRDI 2009 ->

VA 1443 Tamir Takımlı



PSX 142-144
7x14x13,7

12 Volt

UYGUN OEM NO / REPLACING OE-REF

MOTOR NO / UNIT NO

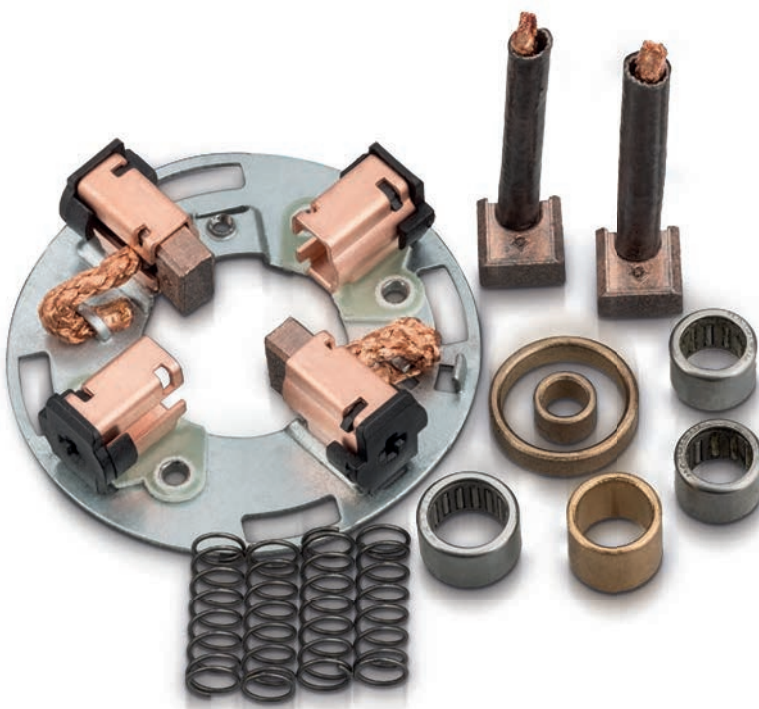
D7RS131, D7RS31, D7RS30, D7RS130

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

AUDI	A2 1.4 TDI	1999 - 2005
	A3 1.9 TDI	1996 - 2003
FORD	GALAXY 1.9 TDI	1995 - 2000
SEAT	ALHAMBRA 1.9 TDI	1996 - 2000
	ORDOBA 1.4 TDI	2002 - 2004
	CORDOBA 1.9 TDI	1996 - 2004
	IBIZA 1.4 TDI	2002 - 2004
	IBIZA 1.9 TDI	1996 - 2009
	LEON 1.9 TDI	1999 - 2012
	TOLEDO 1.9 TDI	1994 - 2003
SKODA	FABIA 1.4 TDI	2003 - 2005
	FABIA 1.9 TDI	2000 - 2007
VW	BORA 1.9 TDI	1998 - 2006
	CADDY 1.9 TDI	1996 - 2005
	GOLF III 1.9 TD/SD/TDI	1993 - 2002
	GOLF IV 1.9 TDI	1996 - 2006
	JETTA 1.9 TDI	1996 - 2001
	LUPO 1.4 TDI	1999 - 2005
	NEW BEETLE 1.9 TDI	1998 - 2010
	PASSAT 1.9 TD	1991 - 2000
	POLO 1.4 TDI	1999 - 2004
	POLO 1.9 TDI	1999 - 2006
	TRANSPORTER 1.9 TD	1995 - 2003
	TRANSPORTER 2.4 D	1990 - 2003
	TRANSPORTER 2.5 TDI	1995-2003

VA 1444 Tamir Takımlı



PSX 142-144
7x14x13,7

12 Volt

UYGUN OEM NO / REPLACING OE-REF

594780

MOTOR NO / UNIT NO

1250128, 1250449, 188839, 438189, 458237, D7G20, D7G26, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R17, D7R18, D7R19, D7R2, D7R20, D7R22, D7R23, D7R24, D7R25, D7R26, D7R27, D7R28, D7R281, D7R3, D7R32, D7R33, D7R34, D7R35, D7R4, D7R40, D7R42, D7R43, D7R44, D7R45, D7R46, D7R47, D7R48, D7R49, D7R5, D7R53, D7R56, D7R61, D7R64, D7R7, D7R8, D7RP123, D7RP204, D7RP82, D8R1, D8R27, D8R28, D8R29, TM000A34101, TM000A36101, TS18E33, TS22E26, TS22E5, TS22E5B, TS22E8, TS22E9, TS24E6

3 KÖMÜRLÜ / WITH 3 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

CITROEN	BERLINGO 1.6 HDI	2005 ->
	C2 1.6 HDI	2005 - 2009, C3 1.6 HDI
	C4 1.6 HDI	2004 - 2010, DS3 1.6 HDI
	JUMPY 1.6 HDI	2007 - 2016, XSARA PIC. 1.6 HDI
		2004 - 2010
HYUNDAI	H-1 2.5 CRDI	2002-2007, STAREX 2.5 CRDI
2007		
KIA	SORENTO 2.5 CRDI	2002 - 2009, CEED 2.0 CRDI
		2007 - 2012, SPORTAGE 2.0 CRDI
		2008 - 2014
	C320 3.0 CDI	2007 - 2014, CLK320
		1997 - 2003
	CLS350 3.0 CDI	2011 ->, E280 2.8L
		1997 - 2003
	E280 3.0 CDI	2005 - 2009, E300 3.0 CDI
		2010 - 2016
	E320 3.0 CDI	2005 - 2009, E320 3.2L
		1997 - 2003
	E350 3.0 CDI	2009 - 2016, R SERISI
		2006 ->
	S320 3.0 CDI	2005 - 2009, S320 3.2L
		1998 - 2002
	S350 3.0 CDI	2009 - 2013, S500 5.0L
		1998 - 2005
	S55 AMG 5.0L	2000 - 2005, SPRINTER 3.0 CDI
		218/318/418/518
		2006 ->, SPRINTER 3.0 CDI
		219/319/419/519
		2009 ->, VIANO 3.0 CDI
		2006 ->
	VITO 3.0 CDI	120/122
		2006 ->
OPEL	MOVANO 1.9 DTI	2000 - 2010
PEUGEOT	206 1.6 HDI	2004 - 2012, 207 1.6 HDI
		2006 - 2014
	3008 1.6 HDI	2009 - 2016, 307 1.6 HDI
		2004 - 2007
	407 1.6 hdi	2004 - 2010, BOXER 2.0/2.2 HDI
		2002 - 2006, PARTNER 1.6 HDI
		2008 ->
RENAULT	MASTER 1.9 dTi	2000 - 2010

MEGA	BOSCH	SAYFA / PAGE
BO 2154	1 004 336 515	5
BO 2154	1 004 336 554	5
BO 2154	1 004 336 661	5
BO 2155	0 001 123 044	5
BO 2155	0 001 123 044	5
BO 2211	1 004 336 549	6
BO 2211	1 004 336 619	6
BO 2211	1 004 336 750	6
BO 2211	1 004 336 878	6
BO 2211	1 007 010 124	6
BO 2211	1 007 010 135	6
BO 2212	1 007 010 124	6
BO 2212	1 007 010 135	6
BO 2432	1 004 336 699	7
BO 2433	1 004 337 050	7

MEGA	LUCAS	SAYFA / PAGE
LU 0751	54291125010	11
LU 0751	54292603010	11
LU 0751	54290789	11
LU 0751	54290790	11
LU 0751	54291125	11
LU 0751	54292603	11

MEGA	VALEO	SAYFA / PAGE
VA 1444	594780	13

MEGA	DELCO - REMY	SAYFA / PAGE
DR 9121	10475602	8

MEGA	LETRİKA	SAYFA / PAGE
LE 0336	16.908.336	9
LE 0752	16.908.752	9
LE 0994	16.908.994	10

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