

50⁺yıl/years



2016 <<

KARDEŞ

Elektrik Sanayi ve Ticaret A.Ş.

YÜKSEK BAKIRLI OTO KÖMÜR YUVALARI
CARBON BRUSH HOLDERS WITH HIGH COPPER DENSITY

50 yılı aşkın bir süredir otomotiv yedek parça sektörüne hizmet veren Kardeş Elektrik San. ve Tic. A.Ş. , tecrübesi, kurumsal geleneği ve daima yenilikçi tutumu ile sektörün önde gelen firmaları arasına girmeyi başarmıştır. Yeniliğe ve gelişime verdiği önem ile piyasa tarafından gelen talep doğrultusunda, yerli üretici kimliğinin getirdiği sorumluluğun da farkında olarak 2007 yılında geleneksel otomotiv marş ve alternatör kömürleri imalatının yanı sıra komple kömür yuvaları üretimine de adım atmıştır. Bu yıldan itibaren sürekli gelişen ürün gamımız, kaliteden ödün vermeyen anlayışımız ve siz değerli müşterilerimizin desteği ile kısa süre içerisinde pazar lideri konumuna gelmek en büyük gurur kaynağımızdır. Değişimin ve gelişimin devamlılığı gereği, durmadan devam eden AR-GE çalışmalarımız sonucunda geliştirilen Yüksek Bakırlı Kömür Yuvaları ile ürün gamımıza 20 yeni ürün daha eklemiş bulunmaktayız.

Yüksek Bakırlı Kömür Yuvası Nedir?

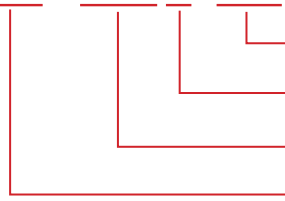
Hepimizin bildiği gibi araçların yıllar içerisinde yıpranmasından kaynaklı, araçlarda kullanılan ve zamanla tükenen karbon fırçaların değişmesi gerekir. Araştırmalarımız sonucunda bu değişimin birebir aynı ürünlerle yapılmasının özellikle eski model araçlarda marş motorunun güç kaybına sebep olduğu gözlenmiştir. Bu gözleme dayanarak araştırma ekibimiz tarafından geliştirilen Yüksek Bakır Oranlı Karbon Fırçalar, içindeki yüksek bakır oranıyla fırçanın iç direnç katsayısını düşürerek elektrik iletimini daha kolay hale getirmiş ve marş motoru performansında gözle görülür artış elde etmişlerdir. Bu karbon fırçaların kullanımı ile oluşturulan yeni Yüksek Bakırlı Kömür Yuvalarımızı bu katalogta inceleyebilirsiniz.



KÖMÜR YUVALARI / BRUSH HOLDERS

ÜRÜN KODLAMA SİSTEMATİĞİ / ABBREVIATIONS

BO 1582 CU



YÜKSEK BAKIRLI / *HIGH COPPER DENSITY*

KONUMLAMA / *POSITIONING*

KÖMÜR REFERANS NO / *BRUSH REFERENCE NUMBER*

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

DR: DELCO-REMY

FI: FIAT

FO: FORD

HI : HITACHI

LU: LUCAS

MA : MARELLI

MI : MITSUBISHI

ND: NIPPON DENSO

VA : VALEO

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 1021 CU	4
BO 1582 CU	4
BO 1584 CU	4
BO 1585 CU	4
BO 1585 CU	4
BO 1586 CU	5
BO 1601 CU	5
BO 1602 CU	5
BO 1603 CU	5
BO 1621 CU	6
BO 1622 CU	6
BO 1761 CU	6
BO 1762 CU	6
BO 1763 CU	7

FIAT TİPİ KÖMÜR YUVALARI
FIAT TYPE BRUSH HOLDERS

FI 1221 CU	7
FI 5361 CU	7

MAKO-MAGNETI MARELLI TİPİ KÖMÜR YUVALARI
MAKO-MAGNETI MARELLI TYPE BRUSH HOLDERS

MA 5261 CU	8
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MITSUBISHI TİPİ KÖMÜR YUVALARI
MITSUBISHI TYPE BRUSH HOLDERS

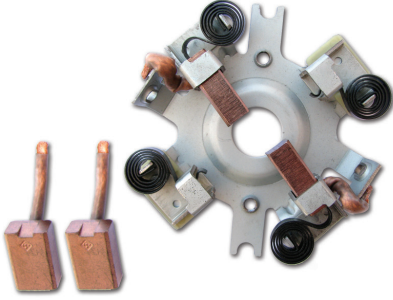
MI 8991 CU	8
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VALEO TİPİ KÖMÜR YUVALARI
VALEO TYPE BRUSH HOLDERS

VA 1331 CU	9
VA 1441 CU	9
VA 1442 CU	9

ÇAPRAZ KARŞILAŞTIRMA LİSTESİ / CROSS REFERENCE LIST

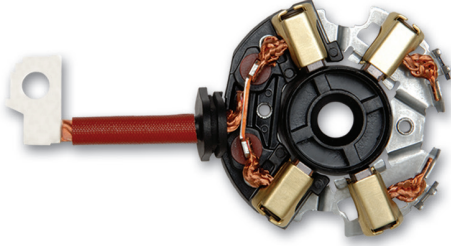
10

BO 1021 CU

BSX 102 CU **9x16x25,5** **12 Volt**
UYGUN OEM NO / REPLACING OE-REF
 2 004 336 021

MOTOR NO / UNIT NO
 0 001 362 001, 003, 004, 006

ARAÇ MODELİ / VEHICLE MODEL

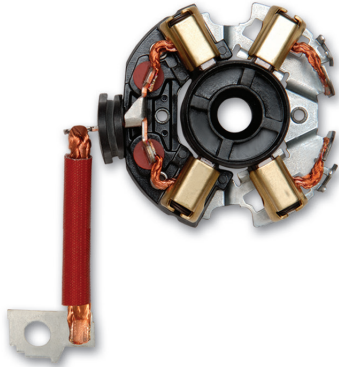
 AUDI
 FIAT
 LAMBORGHINI
 LOMBARDINI
 MASSEY FERGUSON
 MERCEDES
 OPEL
 PEUGEOT

4 KÖMÜRLÜ / WITH 4 BRUSHES
BO 1582 CU

BSX 157-158 CU **6x18x14,5** **12 Volt**
UYGUN OEM NO / REPLACING OE-REF
 1 004 336 456, 460, 463, 802, 835, 908, 946, 949, 994

MOTOR NO / UNIT NO
 0 001 110 053, 089, 113
 DW (R) 1.7/1.8 kW saat yönü / clockwise
 kablo boyu / cable length 125 mm

ARAÇ MODELİ / VEHICLE MODEL

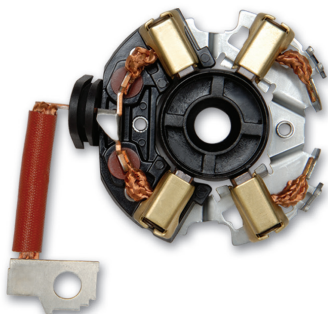
 BMW 7.30 - 2.8
 OPEL ASTRA 1.8i, 2.0i,
 FRONTERA, OMEGA
 VECTRA 1.8i
 RENAULT EXPRES 1.9D
 MEGANE 1.9D,
 CLIO 1.9D, R9/19 1.9D
 VOLVO S40 1.9D

4 KÖMÜRLÜ / WITH 4 BRUSHES
BO 1584 CU

BSX 157-158 CU **6x18x14,5** **12 Volt**
UYGUN OEM NO / REPLACING OE-REF
 1 004 336 228, 233, 257, 359, 402, 408, 429, 446, 732, 737,
 777, 800, 808, 839, 847, 858, 906, 926, 927, 933,
 945, 948, 958, 983, 988, 990, 991

MOTOR NO / UNIT NO
 0 001 109 011, 012, 023, 029, 044, 047
 110 001, 002, 009, 010, 014, 015, 018, 031-033, 047, 057-062,
 069, 070, 073, 076, 077, 080, 081, 084-087, 099, 119
 124 004
 125 001-013, 016-019, 021, 022, 505, 506
 DB / DW (L) 12 V 1.7-2.0 kW saat yönü tersi / anticlockwise
 kablo boyu / cable length 70mm

ARAÇ MODELİ / VEHICLE MODEL

 VOLKSWAGEN TRANSPORTER 1.9 D,
 CADDY, BORA 1.9 TDI,
 POLO 1.4 D,
 POLO CLASSIC,
 A3 1.9 TDI,
 FELICIA 1.9 D
 AUDI
 SKODA

4 KÖMÜRLÜ / WITH 4 BRUSHES
BO 1585 CU

BSX 157-158 CU **6x18x14,5** **12 Volt**
UYGUN OEM NO / REPLACING OE-REF
 1 004 336 301, 394, 400, 401, 404, 405, 407, 409, 412, 413, 430, 431,
 437, 445, 450, 452, 455, 458, 709, 720, 730, 731, 734-
 736, 738, 741, 742, 778, 779, 804, 807, 819, 826, 829,
 836, 840, 860, 864, 909, 914, 924, 925, 931, 942, 947,
 955, 956, 959, 962, 976, 981, 984, 996, 997, 999

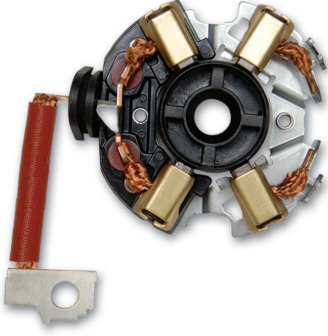
MOTOR NO / UNIT NO
 0 001 109 001-003, 006-009, 014, 017, 018, 021, 022, 025, 026, 028, 030,
 031, 033, 036, 040, 043, 045, 048, 049, 057, 058
 110 004, 005, 007, 008, 022-025, 027-030, 039-046, 051-056, 063-068,
 100-102, 104-108, 110-113, 115, 120, 122-127, 999
 115 002, 007 / 0 001 123 001 / 0 001 124 015 / 0 001 125 501-504, 507
 F010 AL0 101, 996-604-103-00
 DB (R) / DW (R) 12V 1.7/2.0 kW saat yönü / clockwise
 kablo boyu / cable length 86 mm

ARAÇ MODELİ / VEHICLE MODELS

 BMW 5.20D, 5.25i, 7.40
 OPEL ASTRA 1.8i, 2.0i
 FRONTERA, OMEGA,
 VECTRA 1.8i
 RENAULT MEGANE 1.9 D, CLIO, 1.9D
 VOLVO S40 1.9 D
 CITROEN JUMPER 1.9D, X SARA
 1.9D
 PEUGEOT PARTNER 1.9D
 NISSAN XTERRA 2.8D
 FIAT MAREA 1.9 JTD
 DOBLO 1.9
 VOLKSWAGEN POLO 1.9D
 POSRCHE

4 KÖMÜRLÜ / WITH 4 BRUSHES

BO 1586 CU



BSX 157-158 CU 6x18x14,5 12 Volt

UYGUN OEM NO / REPLACING OE-REF

1 004 336 456, 460, 463, 802, 835, 908, 946, 949, 994

MOTOR NO / UNIT NO

0 001 110 053, 089, 113,
114, 003, 026

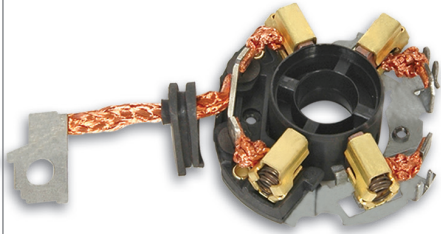
DW (R)12 V 1.7 kW saat yönü / clockwise
kablo boyu / cable length 105 mm

ARAÇ MODELİ / VEHICLE MODEL

VOLKSWAGEN LT 35
RENAULT CLIO 1.9D
MERCEDES 1.7

4 KÖMÜRLÜ / WITH 4 BRUSHES

BO 1601 CU



BSX 159-160 CU 5x16x11,5/13 12 Volt

UYGUN OEM NO / REPLACING OE-REF

1 004 336 300, 318, 337, 343, 374, 403, 411, 418, 419, 423, 436,
443, 457, 464, 733, 740, 747, 748, 762, 806, 812,
816, 823, 832, 837, 859, 902, 903, 907, 912, 913,
918, 921, 922, 934, 935, 936, 941, 944, 950, 954,
960, 965, 968, 971, 973, 974, 986, 995, 998

MOTOR NO / UNIT NO

0 001 108 001-004, 009, 013, 016-020, 022-033, 035, 037-040,
042-049, 051 058, 061, 066, 068-075, 078, 093,
098, 100-126, 128-141, 143, 146, 148, 160, 162,
166, 167, 169, 178, 181, 183, 184, 188-190, 196,
197, 199

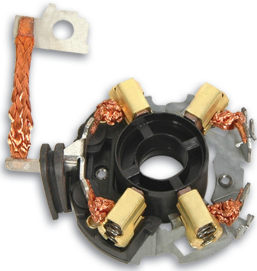
DW (R) 12V1, 1-1, 4kW / DW (R) 24 V 1, 6 kW
saat yönü / clockwise - kablo boyu / cable length 60 mm

ARAÇ MODELİ / VEHICLE MODEL

BMW 3.16, 3.16i COMPACT
3.20i, 5.50i
AUDI 100
OPEL ASTRA, VECTRA 1.8 2.0i
CHRYSLER
ALFA ROMEO
VOLVO S40
FORD ESCORT, MONDEO
RENAULT LAGUNA 2.0

4 KÖMÜRLÜ / WITH 4 BRUSHES

BO 1602 CU



BSX 159-160 CU 5x16x11,5/13 12 Volt

UYGUN OEM NO / REPLACING OE-REF

1 004 336 362, 426, 467, 772, 811, 904, 911, 919, 923, 944, 961

MOTOR NO / UNIT NO

0 001 108 005, 014, 015, 021, 050, 058-060, 076, 077,
094-097, 099, 123, 127, 147, 168

111 001, 005

DW (L) 12 V 1.1-1.4 kW

DW (L) 24 V 1.6 kW saat yönü tersi / anticlockwise
kablo boyu / cable length 60 mm

ARAÇ MODELİ / VEHICLE MODEL

VOLKSWAGEN TRANSPORTER 2.0,
LADA SAMARA
SEAT INCA
PORSCHE CARRERA 1.6
CHRYSLER VOYAGER 1.4 KW

4 KÖMÜRLÜ / WITH 4 BRUSHES

BO 1603 CU



BSX 159-160 CU 5x16x11,5/13 12 Volt

UYGUN OEM NO / REPLACING OE-REF

1 004 336 300, 318, 337, 343, 374, 403, 411, 418, 419, 423, 436,
443, 457, 464, 733, 740, 747, 748, 762, 806, 812,
816, 823, 832, 837, 859, 902, 903, 907, 912, 913,
918, 921, 922, 934, 935, 936, 941, 944, 950, 954,
960, 965, 968, 971, 973, 974, 986, 995, 998

MOTOR NO / UNIT NO

0 001 108 001-004, 009, 013, 016-020, 022-033, 035, 037-040,
042-049, 051, 058, 061, 066, 068-075 078, 093, 098,
100-126, 128-141, 143, 146, 148, 160, 162, 166, 167,
169, 178, 181, 183, 184, 188-190, 196, 197, 199

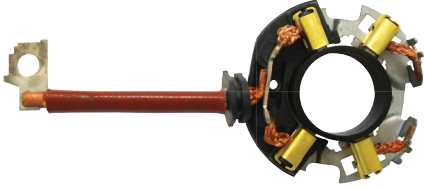
DW (R) 12V 1.1-1.4 kW

DW (R) 24V 1.6 kW saat yönü / clockwise
kablo boyu / cable length 105 mm

ARAÇ MODELİ / VEHICLE MODEL

BMW 3.16, 3.16i COMPACT,
3.20i, 5.50i
AUDI 100
OPEL ASTRA, VECTRA 1.8, 2.0i,
ALFA ROMEO
CHRYSLER
VOLVO S40
FORD ESCORT, MONDEO

4 KÖMÜRLÜ / WITH 4 BRUSHES

BO 1621 CU

BSX 161-162 CU 5x12x11,6 12 Volt
UYGUN OEM NO / REPLACING OE-REF

1 004 336 217, 815, 817, 834, 843, 844, 846, 865, 915-917,
928, 939, 940, 943, 952, 953, 963, 967, 969,
992, 993

9 000 081 094
F 000 AL1 055, 326, 483, 917-919

MOTOR NO / UNIT NO

0 001 112 007, 008, 015, 021, 032, 037
113 001, 002, 007, 008

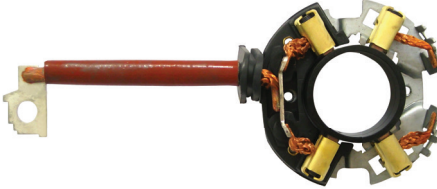
DM (R) 12 V 0.6/1.2 kW saat yönü / clockwise
kablo boyu / cable length 105 mm

4 KÖMÜRLÜ / WITH 4 BRUSHES
ARAÇ MODELİ / VEHICLE MODEL
FORD,

ESCORT, FIESTA,
SIERRA,
GOLF, JETTA, POLO,
SCIROCCO,

VOLKSWAGEN
AUDI
SEAT
OPEL

IBIZA
ASCONA, KADETT,
ASTRA, CORSA,

CITROEN
PEUGEOT
DAEWOO
SUZUKI
BO 1622 CU

BSX 161-162 CU 5x12x11, 6 12 Volt
UYGUN OEM NO / REPLACING OE-REF

1 004 336 217, 815, 817, 834, 843, 844, 846, 865, 915-917,
928, 939, 940, 943, 952, 953, 963, 967, 969, 992,
993

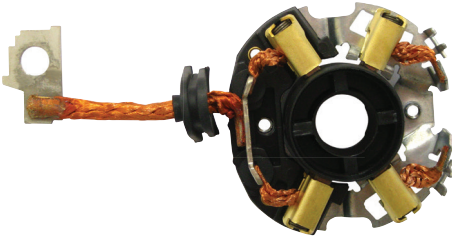
9 000 081 094
F 000 AL1 055, 326, 483, 917-919

MOTOR NO / UNIT NO

0 001 114 005, 006
DA (L) 12 V 0.9 kW saat yönü tersi / anticlockwise
kablo boyu / cable length 105 mm

4 KÖMÜRLÜ / WITH 4 BRUSHES
ARAÇ MODELİ / VEHICLE MODEL
SEAT
VOLKSWAGEN

TOLEDO
POLO, JETTA, PASSAT
TRANSPORTER

BO 1761 CU

BSX 175-176 CU 5x12x11,6 12 Volt
UYGUN OEM NO / REPLACING OE-REF

1 004 336 239, 321, 368, 391, 392, 397, 415, 421, 432, 433,
434, 451, 462, 715-717, 728, 744, 801, 809, 810,
813, 814, 827, 828, 831, 833, 842, 853, 938, 957,
964, 970, 975, 980, 985, 989

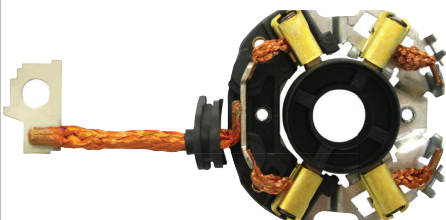
MOTOR NO / UNIT NO

001 106 007-012, 014, 015, 017, 019
107 009, 010, 012, 019, 025-034, 037, 041, 043-045, 047-049
054-056, 059-069, 075-077, 082, 083, 085, 087-089, 101

121 001-003
DB/DW (R) 12V 1.1 kW saat yönü / clockwise
kablo boyu / cable length 70 mm

4 KÖMÜRLÜ / WITH 4 BRUSHES
ARAÇ MODELİ / VEHICLE MODEL
RENAULT
CITROEN
PEUGEOT
TOYOTA
MERCEDES
OPEL
VOLKSWAGEN
SKODA
SEAT

MEGANE 2
BERLINGO 1.9
JUMPER 1.9
PARTNER 1.9, 206
AVENSIS
ASTRA, VECTRA, CORSA
PASSAT, CADDY, POLO
GOLF
OCTAVIA

BO 1762 CU

BSX 175-176 CU 5x12x11,6 12 Volt
UYGUN OEM NO / REPLACING OE-REF

1 004 336 200, 219, 417, 427, 428, 746, 776, 820, 821, 937,
951, 987

MOTOR NO / UNIT NO

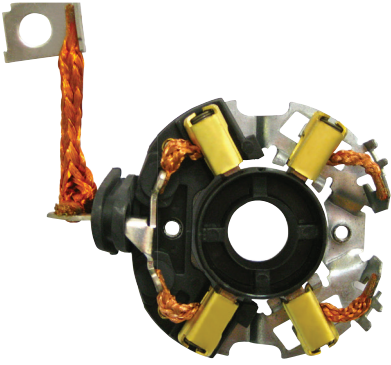
0 001 106 001, 002, 004, 016, 020
107 003-008, 011, 020-024, 039, 040, 046, 052, 053,
058, 080, 090

121 006-011, 016-019, 022, 023
DB/DW (L) 1.1 kW saat yönü tersi / anticlockwise
kablo boyu / cable length 50 mm

4 KÖMÜRLÜ / WITH 4 BRUSHES
ARAÇ MODELİ / VEHICLE MODEL
SEAT
VOLKSWAGEN
AUDI

TOLEDO, IBIZA
TRANSPORTER JETTA,
PASSAT, CADDY,
POLO CLASSIC
A3

BO 1763 CU



BSX 175-176 CU 5x12x10, 9/11,6 12 Volt

UYGUN OEM NO / REPLACING OE-REF

1 004 336 239, 321, 368, 391, 392, 397, 415, 421, 432, 433,
434, 451, 462, 715-717, 728, 744, 801, 809, 810,
813, 814, 827, 828, 831, 833, 842, 853, 938, 957,
964, 970, 975, 980, 985, 989

MOTOR NO / UNIT NO

001 106 007-012, 014, 015, 017, 019
107 009, 010, 012, 019, 025-034, 037, 041, 043-045, 047-
049, 054-056, 059-069, 075-077, 082, 083, 085, 087-089, 101
121 001-003

DM (R) 12 V 0.8-1.0 kW

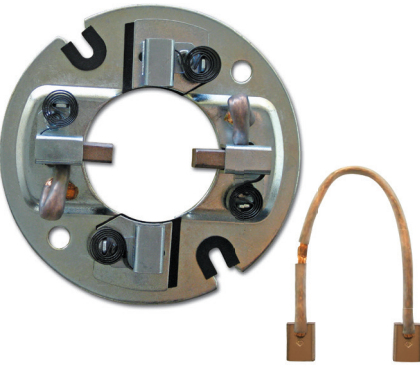
DM (L) 12 V 0.8-1.0 kW saat yönü ve saat yönü tersi / clockwise and anticlockwise kablo boyu / cable length 70 mm

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

FORD	FIESTA, ESCORT
PEUGEOT	106
SEAT	TOLEDO
CITROEN	SAXO, XSARA

FI 1221 CU



JSX 21-22 CU 6x13x17,5 12 Volt

UYGUN OEM NO / REPLACING OE-REF

74891101010

MOTOR NO / UNIT NO

063221433010, 063221434010,
063221435010, 063221436010,
063221438010, 063221530010,
063221533010, 063221536010

3 KÖMÜRLÜ / WITH 3 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

TOFAŞ	
FIAT	DOBLO
FORD	TAUNUS, SIERRA, CAPRI
TRANSIT	
ANADOL	
FORD	TUZLA, JEEP
RENAULT	9-11
PEUGEOT	
BMW	

FI 5361 CU



JSX 35-36 CU 7x13x17.5 12 Volt

UYGUN OEM NO / REPLACING OE-REF

832 212 41

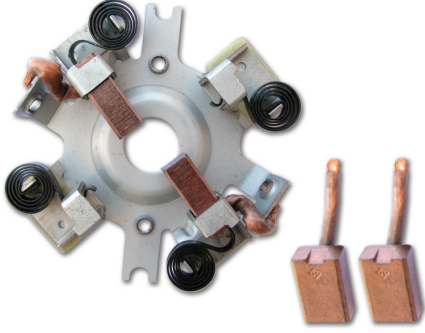
MOTOR NO / UNIT NO

E80 0,8/1-12
632 228 31-33,36-38
632 230 31-34

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODELS

ALFA ROMEO	
FIAT	DUCATO

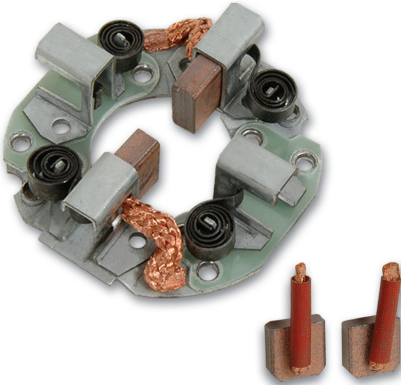
MA 5261 CU**MASX 25-26 CU****9x16x23****12 Volt****ARAÇ MODELİ / VEHICLE MODEL**
FIATAGRICULTURE,
ALLIS, COMMERCIAL**UYGUN OEM NO / REPLACING OE-REF**

2 004 336 021

MOTOR NO / UNIT NO

0631 180 01009

0632 071 43 00

4 KÖMÜRLÜ / WITH 4 BRUSHES**MI 8991 CU****JASX 98-99 CU****6,8x18x18****12 Volt****ARAÇ MODELİ / VEHICLE MODEL**
MITSUBISHICANTER L200, L300,
PAJERO, SHOGUN, COLT,
LANCER,**HYUNDAI**H100,
STAREX**NISSAN**

PICKUP 2300, 2500 D,

MAZDA

323, 626,

SUZUKI

VITARA

UYGUN OEM NO / REPLACING OE-REF

M648X28271, ME700127

M649T05071, 05072

MOTOR NO / UNIT NO

M2T 54172, 54271, 54371, 54372, 54572, 55971, 56071,

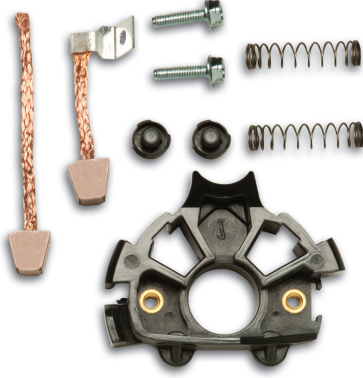
56171, 56181, 56182, 56271, 56272, 56471,

56472, 56971, 57271, 61071, 61171, 61371,

61471, 61771, 62271, 65271, 65971

4 KÖMÜRLÜ / WITH 4 BRUSHES

VA 1331 CU



PSX 133 CU 13,9/6,9x12x15 12 Volt

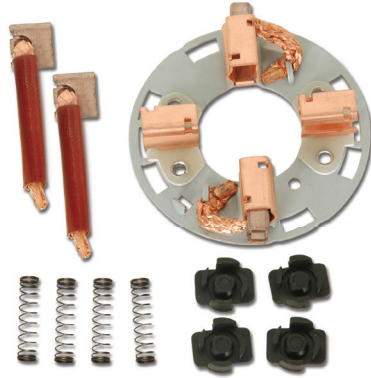
UYGUN OEM NO / REPLACING OE-REF
594132-385

MOTOR NO / UNIT NO
D9E36, 38, 39, 48, 56, 57, 61, 64, 66, 68, 70, 76, 78, 81, 83,
86, 92, 94, 100, 107, 110, 113, 114, 123, 125, 127,
129, 132, 136, 137, 237, 276, 701, 702, 861

2 KÖMÜRLÜ / WITH 2 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL
RENAULT 5, 9, 19, 21, MEGANE
TRAFFIC, CLIO 1.2, 1.4
FORD ESCORT, FIESTA

VA 1441 CU



PSX 142-144 CU 7x14x13,7 12 Volt

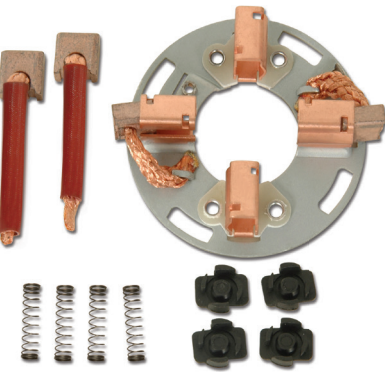
UYGUN OEM NO / REPLACING OE-REF
Anticlockwise
Saat Yönü Ters
Brush Holder For D7R

MOTOR NO / UNIT NO
D7RS131, -31, D7RS130, -30, D7RS129, -29
RE501680, RE501693, RE502156, RE502196, RE60641,
RE63010, SE501861

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL
AUDI A2, A3
FORD GALAXY
SEAT ALHAMBRA, AROSA,
CORDOBA, IBIZA,
LEON, TOLEDO,
SKODA OCTAVIA,
VOLKSWAGEN BORA, GOLF, PASSAT,
POLO, SHARAN,
VENTO, CADDY,
TRANSPORTER
JOHN DEERE

VA 1442 CU



PSX 142-144 CU 7x14x13,7 12 Volt

UYGUN OEM NO / REPLACING OE-REF
Clockwise / Saat Yönü
Brush Holder For D7R

MOTOR NO / UNIT NO
D7R123, -19, -28, -281, -43, -46
D7R13, -18, -25, -35, -5
D7R1, -11, -3, -45
D7R12, -20, -27, -4
D7R22
D7R33
D7R48
D7R16

4 KÖMÜRLÜ / WITH 4 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL
VOLVO S40, 440, 460
AUDI 80, 90 A4, A6
VOLKSWAGEN PASSAT
CITROEN C5, EVASION, XANTIA,
BERLINGO, JUMPER, JUMPY,
ELANTRA
HYUNDAI ZETA
LANCIA 106, 206, 306, 405, 406, 605,
806, BOXER, EXPERT, PARTNER
PEUGEOT METRO
BMC MICRA
NISSAN MEGANE, CLIO, R 19, SAFRAN,
RENAULT C200D, E200D, E250D, E290D,
MERCEDES V200, V220, 409D, 612D,
812D, SPRINTER, VITO

KÖMÜR YUVALARI / BRUSH HOLDERS

BOSCH	MEGA	SAYFA NO
1 004 336 021	BO 1021 CU	4
1 004 336 125	BO 1601 CU	5
1 004 336 130	BO 1601 CU	5
1 004 336 132	BO 1601 CU	5
1 004 336 136	BO 1602 CU	5
1 004 336 139	BO 1585 CU	4
1 004 336 146	BO 1601 CU	5
1 004 336 147	BO 1602 CU	5
1 004 336 155	BO 1584 CU	4
1 004 336 156	BO 1584 CU	4
1 004 336 162	BO 1601 CU	5
1 004 336 200	BO 1762 CU	6
1 004 336 217	BO 1621 CU	6
1 004 336 219	BO 1762 CU	6
1 004 336 228	BO 1584 CU	4
1 004 336 233	BO 1584 CU	4
1 004 336 239	BO 1761 CU	6
1 004 336 257	BO 1584 CU	4
1 004 336 300	BO 1601 CU	5
1 004 336 301	BO 1585 CU	4
1 004 336 318	BO 1601 CU	5
1 004 336 321	BO 1761 CU	6
1 004 336 337	BO 1601 CU	5
1 004 336 343	BO 1601 CU	5
1 004 336 359	BO 1584 CU	4
1 004 336 362	BO 1602 CU	5
1 004 336 368	BO 1761 CU	6
1 004 336 374	BO 1601 CU	5
1 004 336 391	BO 1761 CU	6
1 004 336 392	BO 1761 CU	6
1 004 336 394	BO 1585 CU	4
1 004 336 397	BO 1761 CU	6
1 004 336 400	BO 1585 CU	4
1 004 336 401	BO 1585 CU	4
1 004 336 402	BO 1584 CU	4
1 004 336 403	BO 1601 CU	5
1 004 336 404	BO 1585 CU	4
1 004 336 405	BO 1585 CU	4
1 004 336 407	BO 1585 CU	4
1 004 336 408	BO 1584 CU	4
1 004 336 409	BO 1585 CU	4
1 004 336 411	BO 1601 CU	5
1 004 336 412	BO 1585 CU	4
1 004 336 413	BO 1585 CU	4
1 004 336 415	BO 1761 CU	6
1 004 336 417	BO 1762 CU	6
1 004 336 418	BO 1601 CU	5
1 004 336 419	BO 1601 CU	5
1 004 336 421	BO 1761 CU	6
1 004 336 423	BO 1601 CU	5
1 004 336 426	BO 1602 CU	5
1 004 336 427	BO 1762 CU	6
1 004 336 428	BO 1762 CU	6

BOSCH	MEGA	SAYFA NO
1 004 336 429	BO 1584 CU	4
1 004 336 430	BO 1585 CU	4
1 004 336 431	BO 1585 CU	4
1 004 336 432	BO 1761 CU	6
1 004 336 433	BO 1761 CU	6
1 004 336 434	BO 1761 CU	6
1 004 336 436	BO 1601 CU	5
1 004 336 437	BO 1585 CU	4
1 004 336 443	BO 1601 CU	5
1 004 336 445	BO 1585 CU	4
1 004 336 446	BO 1584 CU	4
1 004 336 451	BO 1761 CU	6
1 004 336 455	BO 1585 CU	4
1 004 336 456	BO 1582 CU	4
1 004 336 457	BO 1601 CU	5
1 004 336 458	BO 1585 CU	4
1 004 336 459	BO 1584 CU	4
1 004 336 460	BO 1582 CU	4
1 004 336 462	BO 1761 CU	6
1 004 336 463	BO 1582 CU	4
1 004 336 464	BO 1601 CU	5
1 004 336 466	BO 1584 CU	4
1 004 336 467	BO 1602 CU	5
1 004 336 471	BO 1602 CU	5
1 004 336 728	BO 1761 CU	6
1 004 336 730	BO 1585 CU	4
1 004 336 731	BO 1585 CU	4
1 004 336 732	BO 1584 CU	4
1 004 336 733	BO 1601 CU	5
1 004 336 734	BO 1585 CU	4
1 004 336 735	BO 1585 CU	4
1 004 336 736	BO 1585 CU	4
1 004 336 737	BO 1584 CU	4
1 004 336 738	BO 1585 CU	4
1 004 336 740	BO 1601 CU	5
1 004 336 741	BO 1585 CU	4
1 004 336 742	BO 1585 CU	4
1 004 336 744	BO 1761 CU	6
1 004 336 746	BO 1762 CU	6
1 004 336 747	BO 1601 CU	5
1 004 336 748	BO 1601 CU	5
1 004 336 762	BO 1601 CU	5
1 004 336 776	BO 1762 CU	6
1 004 336 777	BO 1584 CU	4
1 004 336 778	BO 1585 CU	4
1 004 336 779	BO 1585 CU	4
1 004 336 800	BO 1584 CU	4
1 004 336 801	BO 1761 CU	6
1 004 336 802	BO 1582 CU	4
1 004 336 804	BO 1585 CU	4
1 004 336 806	BO 1601 CU	5
1 004 336 807	BO 1585 CU	4
1 004 336 808	BO 1584 CU	4

BOSCH	MEGA	SAYFA NO
1 004 336 809	BO 1761 CU	6
1 004 336 810	BO 1761 CU	6
1 004 336 811	BO 1602 CU	5
1 004 336 812	BO 1601 CU	5
1 004 336 813	BO 1761 CU	6
1 004 336 814	BO 1761 CU	6
1 004 336 815	BO 1621 CU	5
1 004 336 816	BO 1601 CU	5
1 004 336 817	BO 1621 CU	6
1 004 336 819	BO 1585 CU	4
1 004 336 820	BO 1762 CU	6
1 004 336 821	BO 1762 CU	6
1 004 336 823	BO 1601 CU	5
1 004 336 826	BO 1585 CU	4
1 004 336 827	BO 1761 CU	6
1 004 336 828	BO 1761 CU	6
1 004 336 829	BO 1585 CU	4
1 004 336 831	BO 1761 CU	6
1 004 336 832	BO 1601 CU	5
1 004 336 833	BO 1761 CU	6
1 004 336 834	BO 1621 CU	5
1 004 336 835	BO 1582 CU	4
1 004 336 836	BO 1585 CU	4
1 004 336 837	BO 1601 CU	5
1 004 336 839	BO 1584 CU	4
1 004 336 840	BO 1585 CU	4
1 004 336 842	BO 1761 CU	6
1 004 336 843	BO 1621 CU	5
1 004 336 844	BO 1621 CU	6
1 004 336 846	BO 1621 CU	6
1 004 336 847	BO 1584 CU	4
1 004 336 853	BO 1761 CU	6
1 004 336 859	BO 1601 CU	5
1 004 336 860	BO 1585 CU	4
1 004 336 865	BO 1621 CU	5
1 004 336 902	BO 1601 CU	5
1 004 336 903	BO 1601 CU	5
1 004 336 904	BO 1602 CU	5
1 004 336 906	BO 1584 CU	4
1 004 336 907	BO 1601 CU	5
1 004 336 908	BO 1582 CU	4
1 004 336 909	BO 1585 CU	4
1 004 336 911	BO 1602 CU	5
1 004 336 912	BO 1601 CU	5
1 004 336 913	BO 1601 CU	5
1 004 336 914	BO 1585 CU	4
1 004 336 915	BO 1621 CU	6
1 004 336 916	BO 1621 CU	6
1 004 336 917	BO 1621 CU	6
1 004 336 918	BO 1601 CU	5
1 004 336 919	BO 1602 CU	5
1 004 336 921	BO 1601 CU	5
1 004 336 922	BO 1601 CU	5

KÖMÜR YUVALARI / BRUSH HOLDERS

BOSCH	MEGA	SAYFA NO
1 004 336 923	BO 1602 CU	5
1 004 336 924	BO 1585 CU	4
1 004 336 925	BO 1585 CU	4
1 004 336 926	BO 1584 CU	4
1 004 336 927	BO 1584 CU	4
1 004 336 928	BO 1621 CU	6
1 004 336 931	BO 1585 CU	4
1 004 336 933	BO 1584 CU	4
1 004 336 934	BO 1601 CU	5
1 004 336 935	BO 1601 CU	5
1 004 336 936	BO 1601 CU	5
1 004 336 937	BO 1762 CU	6
1 004 336 938	BO 1761 CU	6
1 004 336 939	BO 1621 CU	6
1 004 336 940	BO 1621 CU	6
1 004 336 941	BO 1601 CU	5
1 004 336 942	BO 1585 CU	4
1 004 336 943	BO 1621 CU	6
1 004 336 944	BO 1602 CU	5
1 004 336 945	BO 1584 CU	4
1 004 336 946	BO 1582 CU	4
1 004 336 947	BO 1585 CU	4
1 004 336 948	BO 1584 CU	4
1 004 336 949	BO 1582 CU	4
1 004 336 950	BO 1601 CU	5
1 004 336 951	BO 1762 CU	6
1 004 336 952	BO 1621 CU	6
1 004 336 953	BO 1621 CU	6
1 004 336 954	BO 1601 CU	5
1 004 336 955	BO 1585 CU	4
1 004 336 956	BO 1585 CU	4
1 004 336 957	BO 1761 CU	6
1 004 336 958	BO 1584 CU	4
1 004 336 959	BO 1585 CU	4
1 004 336 960	BO 1601 CU	5
1 004 336 961	BO 1602 CU	5
1 004 336 962	BO 1585 CU	4
1 004 336 963	BO 1621 CU	6
1 004 336 964	BO 1761 CU	6
1 004 336 965	BO 1601 CU	5
1 004 336 967	BO 1621 CU	6
1 004 336 968	BO 1601 CU	5
1 004 336 969	BO 1621 CU	6
1 004 336 970	BO 1761 CU	6
1 004 336 971	BO 1601 CU	5
1 004 336 973	BO 1601 CU	5
1 004 336 974	BO 1601 CU	5
1 004 336 975	BO 1761 CU	6
1 004 336 976	BO 1585 CU	4
1 004 336 980	BO 1761 CU	6
1 004 336 981	BO 1585 CU	4
1 004 336 983	BO 1584 CU	4
1 004 336 984	BO 1585 CU	4

BOSCH	MEGA	SAYFA NO
1 004 336 985	BO 1761 CU	6
1 004 336 986	BO 1601 CU	4
1 004 336 987	BO 1762 CU	6
1 004 336 988	BO 1584 CU	4
1 004 336 989	BO 1761 CU	6
1 004 336 990	BO 1584 CU	4
1 004 336 991	BO 1584 CU	4
1 004 336 992	BO 1621 CU	6
1 004 336 993	BO 1621 CU	6
1 004 336 994	BO 1582 CU	4
1 004 336 995	BO 1601 CU	5
1 004 336 996	BO 1585 CU	4
1 004 336 997	BO 1585 CU	4
1 004 336 998	BO 1601 CU	5
1 004 336 999	BO 1585 CU	4
F 000 AL1 055	BO 1621 CU	6
F 000 AL1 326	BO 1621 CU	6
F 000 AL1 483	BO 1621 CU	6
F 000 AL1 917	BO 1621 CU	6
F 000 AL1 918	BO 1621 CU	6
F 000 AL1 919	BO 1621 CU	6
F 000 AL2 034	BO 1621 CU	6
F 000 AL2 035	BO 1621 CU	6
F 000 AL2 036	BO 1621 CU	6
F 000 AL2 109	BO 1621 CU	6

CARGO	MEGA	SAYFA NO
134658	BO 1601 CU	5
134659	BO 1584 CU	4
134660	BO 1585 CU	4
134868	BO 1621 CU	6
135015	BO 1762 CU	6
135235	BO 1602 CU	5
136204	FI 5361 CU	7
136418	BO 1621 CU	6
136557	BO 1761 CU	6
137268	BO 1621 CU	6
137618	BO 1761 CU	6
137703	BO 1582 CU	4
138201	BO 1621 CU	6
138326	BO 1601 CU	5
138899	BO 1621 CU	6
138900	BO 1585 CU	4
138902	BO 1621 CU	6
138903	BO 1601 CU	5
138904	BO 1621 CU	6
138905	BO 1762 CU	6
138906	BO 1761 CU	6
139144	BO 1601 CU	5
139145	BO 1761 CU	6
139146	BO 1584 CU	4
139428	BO 1584 CU	4
139638	BO 1585 CU	4

CARGO	MEGA	SAYFA NO
232183	BO 1761 CU	6
233565	BO 1761 CU	6

FIAT	MEGA	SAYFA NO
74891101010	FI 1221 CU	7
832 212 41	FI 5361 CU	7

IKA	MEGA	SAYFA NO
7 7124 1	BO 1601 CU	5
7 7125 1	BO 1621 CU	6
7 7126 1	BO 1762 CU	6
7 7127 1	BO 1584 CU	4
7 7128 1	BO 1602 CU	5
7 7129 1	BO 1585 CU	4
7 7131 1	BO 1761 CU	6
7 7132 1	BO 1582 CU	4
7 7395 1	MA 5261 CU	8
7 7192 1	FI 5361 CU	7

MAGNETI MARELLI	MEGA	SAYFA NO
721 641 01	MA 5261 CU	8

MONARK	MEGA	SAYFA NO
085 831 815	BO 1621 CU	6
085 831 907	BO 1601 CU	5
085 831 909	BO 1585 CU	4
085 831 916	BO 1621 CU	6
085 831 949	BO 1582 CU	4
085 831 951	BO 1762 CU	6
085 831 954	BO 1601 CU	5
085 831 955	BO 1585 CU	4
085 831 958	BO 1584 CU	4

WAI	MEGA	SAYFA NO
69-9111	BO 1601 CU	5
69-9115	BO 1603 CU	5
69-9121	BO 1763 CU	7
69-9129	BO 1582 CU	4
69-9138	BO 1585 CU	4
69-9139	BO 1621 CU	6
69-9142	BO 1761 CU	6
69-9143	BO 1762 CU	6
69-9302	MA 5261 CU	8
69-9305	FI 5361 CU	7
69-9404	VA 1441 CU	9

VALEO	MEGA	SAYFA NO
594 132	VA 1331 CU	9
594 385	VA 1331 CU	9

KARDEŞ

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