



**NEUE PRODUKTE
NEW PRODUCTS**

2024



OTO KÖMÜRLERİ & KÖMÜR YUVALARI
CARBON BRUSHES & BRUSH HOLDERS



Kardeş Elektrik 1960'lı yılların başında marş, alternatör ve DC motor kömür fırça ithalatı ile başlayan otomotiv yedek parça alanındaki faaliyetini, 1974 yılında imalata taşıyarak bugün MEGA markası ile Türkiye'de bu alanda otomotiv kömür fırça ve kömür yuvası alanlarında pazar lideri olmuştur.

2007 yılında ürün gamını geliştirerek, marş ve alternatör kömür yuvaları üretimine başlamıştır. Kömür ve kömür yuvası ürün gruplarımıza 2019 yılında eklediğimiz MEGA Marş Otomatığı ile Otomotiv Elektrik sektörüne toplamda 700'den fazla ürün ile hizmet vermekten gurur duyuyoruz.

60+ yıldır MEGA markasının gösterdiğiniz güven ve destekten aldığımız enerji ile geliştirilen MEGA Marş Otomatığı serisi de ülkemizin dışa bağımlılığını azaltacak ve istihdam artırımında payımıza düşen katkının haklı gururunu sizlerle yaşıyoruz.

Tıpkı 2007 yılında 10 tip ile başlayan kömür yuvasının on sene içinde 200'den fazla tipe ulaşması gibi, MEGA Marş Otomatik tip sayısını da benzer şekilde arttırmayı hedefliyoruz. Kardeş Elektrik İstanbul Havalimanına 15 km yakınıktadır. Ürünlerimiz %100 kontrol edildikten sonra sevk edilmektedir.

2019 yılında 16 tip ürünle başladığımız MEGA marş otomatığı ürün grubumuzu kısa sürede 64 tipe yaygınlaştırarak kullanıcılarımıza sunuyoruz.

Kaliteli ürün - kaliteli marka prensibimiz ile yapmış olduğumuz üretimlerimiz IATF 16949 , ISO 9001:2015, ISO 14001, ISO 27001 standart belgeleri ile güvence altındadır.

Köklerini geçmişten alan sanayici yetkinliğimiz ile gelecek için yenilerek 60+ yıldır Türk Sanayi'sine verdiğimiz hizmet kalitesini sürekli yukarılara taşıyarak en iyiye ulaşmak ilk hedefimizdir.

Bu katalog Kardeş Elektrik'in yazılı izni olmadan tamamen veya kısmen çoğaltılamaz. Bu katalogta yer alan üretici ve tedarikçi isimleri ve parça numaraları sadece referans amaçlı kullanılmıştır; ancak firmamız yanlışlıklardan sorumlu değildir.



Kardeş Elektrik, started its activities early 1960's by importing starter generators and DC motor carbon brushes. In 1974, we have started production of automotive carbon brushes under MEGA brand and are now market leader in this field.

In 2007, we have extended our product range by starting production of brush holder for starters and alternators. In 2019, we added MEGA Starter Solenoid to our brush and brush holder products. More than 700 items in total, we are proud to service the Automotive Electricity sector.

MEGA Starter Solenoid line, developed with energy received by your support and trust for 60+ years, will decrease lead times of our customers, closing the gap for quality products at affordable prices for our European Customers.

As MEGA Starter Solenoid series, we initially offered 16 different types of products for 2019 and increased that number to 64 by the end of 2023.

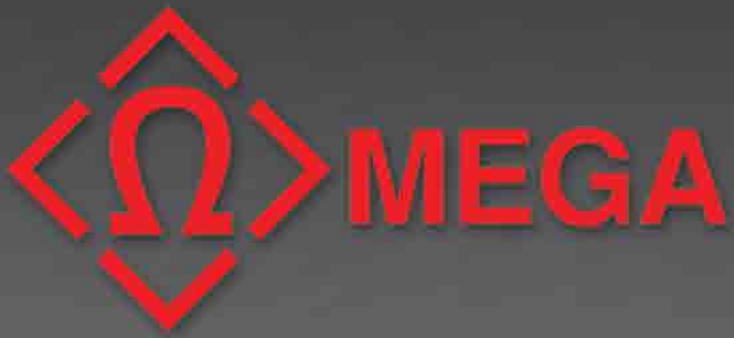
Just as we started with only 10 types of brush holders in 2007 and reached almost 200 types today, we are determined to increase diversity of MEGA Starter Solenoid series.

Our goal is to provide a high quality product, favored by key remanufacturing facilities throughout automotive industry. Kardeş Elektrik, located only 15 km away from new Istanbul Airport possesses ISO 9001: 2015, ISO 14001 , ISO 27001 and IATF 16949 certificates.

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KÖMÜR YUVALARI

BRUSH HOLDERS



BO 0251**K025 4,5x14x13,8/12,3 12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**
1004339000, 1004339020**OPEL** Astra J 1.4L**MOTOR NO / UNIT NO**0001192008 0001194019
0001192009 F000C60299
0001192046 F000C60300
0001192047 STB2505BA
0001192068 STB9450BA
0001192069
0001192080
0001192081
0001192083
0001192086
0001192087**4 KÖMÜRLÜ / WITH 4 BRUSHES****BO 2031****BSX 202-203 9X32X23 24 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**
2004336091, 6033AD6098**SCANIA** R500**MOTOR NO / UNIT NO**1330008,
STB1400,
STB1400WA**4 KÖMÜRLÜ / WITH 4 BRUSHES****BO 2032****BSX 202-203 9x32x23 24 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**
2004336092, 2004336111, 2004336125, 6033AD0384**Komatsu** 600-813,
VOLVO PENTA TAD1240GE 2010-**MOTOR NO / UNIT NO**0001330004 STB1645MN
0001330007 STB3279MN
0001330008 STB3981MN
0001330011 STB4007MN
0001330012 STB4007WA
0001330013 STB6510MN
0001330014 STB6510WA
0001330502 STB9012MN
000133E707 STB9012WA
0001 33F412 STB9609MN
STB1400YN STB9609WA
STB1472MN**6 KÖMÜRLÜ / WITH 6 BRUSHES****BO 2231****BSX 222-223 6,35x27,77x18,20 12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**
2004336090BOSCH, 2004336094BOSCH
2004336096BOSCH, 2004336097BOSCH**JOHN DEERE** 7000 Diesel
VALTRA 6550Hi 2003**MOTOR NO / UNIT NO**0 001260001 STB0009MN
000 260004 STB0009WA
0001260025 STB3570MN
0001260026 STB3570WA
0001262022 STB9002MN
296195600 STB9002NB
504357110 STB9002UL
STB0009BA STB9718MN**4 KÖMÜRLÜ / WITH 4 BRUSHES**

BO 2471**BSX 247****4,5x14x13,8****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

1004337073

MOTOR NO / UNIT NO0001138013
0001147420
0001147421
0001147430
0001147431
0001147432
0001147433

MERCEDES-BENZ CLS400 2014- /
E400/E320 2014- /
GL400 2013- /
SL400 2014- Eng.
M276825/
M276960/
M276820

6 KÖMÜRLÜ / WITH 6 BRUSHES**BO 2472****BSX 247****4,5x14x13,8****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

1004337072

MOTOR NO / UNIT NO0001147422
0001147423
0001147432
0001147433**AMG C** 43 4Matic**6 KÖMÜRLÜ / WITH 6 BRUSHES****BO 2442****BSX 244****4,6x19,5x12,3/13,7****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

1004337181

MOTOR NO / UNIT NO

0 001 148 510,511

Mercedes Sprinter GLC 200 d,-Coupe 4Matic
>2016
START STOP

6 KÖMÜRLÜ / WITH 6 BRUSHES**BO 2534****BSX 253****4,5x14x13/11,5****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

1 004 338 149

MOTOR NO / UNIT NO0 001 170 647,
0 001 170 604,
0 001 170 605,
0 001 170 623,
0 001 170 625,
0 001 170 628,
0 001 170 629,
0 001 172 402,
STB2587BA,
STB2742EX,
STB7604BA

RENAULT MEGANE III,
GRANDTOUR
SCENIC III
START STOP

6 KÖMÜRLÜ / WITH 6 BRUSHES

BO 2454**BSX 245 4.45x19.5x12.3/13.8 12 Volt****UYGUN OEM NO / REPLACING OE-REF**

1 004 337 146,147 / 773 679 66

MOTOR NO / UNIT NO0 001 148
021,022,039,040, 0 001
153 013,014,019,020**6 KÖMÜRLÜ / WITH 6 BRUSHES****ARAÇ MODELİ / VEHICLE MODEL****FIAT** 500X 2.0 MultiJet 4x4 >2014,
Ducato 115 MultiJet >2014,
Renegade 2.0 MultiJet >2014,
Jeep
SEAT
VW Amarok 2.0 TDI,-4Motion 2011-
2016, Crafter 30/35/50 2.0 TDI,-
BiTDI, 2011-2016,
START STOP**BO 2531****BSX 253 4,5x14x13/11,5 12 Volt****UYGUN OEM NO / REPLACING OE-REF**1004338139, 1004338141, 1004338149, 1004338195,
1004338196,1004338198,1004338141, 1004338149,1004338195,
1004338196, 1004338198,**MOTOR NO / UNIT NO**0001170611
0001170604
0001170605
0001170625
0001170628
0001170629
0001172407**6 KÖMÜRLÜ / WITH 6 BRUSHES****ARAÇ MODELİ / VEHICLE MODEL****RENAULT** MEGANE III, SCENIC III, BOSCH
TIP 170 SR. MARSLARA
START-STOP**BO 2532****BSX 253 4,5x14x13/11,5 12 Volt****UYGUN OEM NO / REPLACING OE-REF**1004338138, 1004338139, 1004338141, 1004338142,
1004338149, 1004338156, 1004338195, 1004338196
1004338198, 1004338200, 335788, 337346, 7.7573.1**MOTOR NO / UNIT NO**0001170629
0001174600
0001174601**6 KÖMÜRLÜ / WITH 6 BRUSHES****ARAÇ MODELİ / VEHICLE MODEL****RENAULT** MEGANE III,SCENIC III, BOSCH
VW TIP
AUDI
SEAT TERS DONUS 170 SR.
MARSLARA START-STOP

DR 0161**K016****4,4x12x11,6****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

36170-03602, 3615-903602, 3615-92B614

MOTOR NO / UNIT NO

0001170629 STD1465RD
 000117042 STD5881LC
 3610003602 STD7301YJ
 3610003853 STD9614KR
 361002B614 STD9614LC
 8000708
 A1731513001

**Hyundai
KIA**

ACCENT BLUE İ10 İ20 İ30
 CEED RIO 1.2 1.4 BENZİNLİ
 36170-03602

**SSANGYONG
TIVOLAN**

1.6 2015'-? '94Kv/ 128Hs
 1.6 2015-?'>'94Kv / 128Hs

4 KÖMÜRLÜ / WITH 4 BRUSHES**FI 5371****YENİ / NEW****JSX 35-37****7x13x17,5****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

83221241, 83224461, 83225359, 83226216

MOTOR NO / UNIT NO

50246532	63103002	63222831	63222904	63223103	83221241
50246648	63103003	63222832	63223031	63223104	83224461
63101000	63103007	63222833	63223032	63223106	83225359
63102000	63103008	63222836	63223033	63223108	83226216
63102003	63103015	63222837	63223034	63223182	
63102004	63103022	63222838	63223035	63230001	
63102007	63103031	63222900	63223085	63230003	
63102008	63192000	63222901	63223101	63293103	

3 KÖMÜRLÜ / WITH 3 BRUSHES**FIAT**

500 1.2/1.4L 2007 -> ALBEA 1.4L 2007
 - 2012 BRAVA/BRAVO 1.6L 1995 - 2001
 BRAVA/BRAVO 1.4L 1995 - 2001 BRAVA/
 BRAVO 1.2L 1998 - 2002 BRAVO 1.4L 2007
 - 2013 G.PUNTO 1.2/1.4L 2005 -> IDEA
 1.2/1.4L 2004 - 2012 LINEA 1.4L 2007 -
 2016 MAREA 1.2L 1998 - 2002 MAREA
 1.4L 1996 - 2002 MAREA 1.6L 1996 - 2002
 PALIO 1.4L 1996 - 1999 PALIO 1.6L 1996
 - 2001 PANDA 1.1/1.2/1.4L 2004 - 2012
 PUNTO 1.1L 1993 - 1999 PUNTO 1.2L
 1994 - 2010 SIENA 1.2L 1998 - 2007
 SIENA 1.4L 1996 - 2007 SIENA 1.6L 1998 -
 2007 STILO 1.2/1.4L 2001 - 2010 TEMPRA
 1.6L 1994 - 1996 TIPO 1.6L 1988 - 1990

NISSAN

PRIMERA 1.6L 1996 - 2001

ND 0112**JASX 10-11****10x30x20****24 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

028510-0880

MOTOR NO / UNIT NO

128000-0490	128000-5370	228000-5311	228000-7550
128000-2450	128000-5730	228000-5460	228000-7870
128000-2470	128000-5731	228000-5610	228000-8082
128000-2560	128000-5732	228000-5621	228000-8470
128000-2740	228000-0874	228000-5650	228000-9020
128000-3360	228000-2200	228000-5651	228000-9140
128000-3361	228000-2470	228000-5730	228000-9630
128000-4250	228000-2670	228000-5850	228000-9750
128000-4682	228000-2800	228000-6530	228000-9760
128000-4683	228000-3310	228000-6540	428000-1370
128000-4684	228000-3320	228000-6550	428000-2370
128000-4685	228000-3700	228000-6560	428000-2590
128000-4687	228000-5000	228000-6572	428000-4440
128000-4910	228000-5001	228000-7380	
	228000-5052	228000-7413	

4 KÖMÜRLÜ / WITH 4 BRUSHES**CATERPILLAR**3114/3116 MOTORLAR
1991 - 1993**CUMMINS
J.DEERE**8.3 D.MOTOR 1997 ->
8110/8210/8310/8410 8.1D
1999 - 2001
8120/8220/8320/8420/8520
8.1D
2001 - 2006
8230/8330/8430/8530
2005-2009
9230/9670/9770 2007 -
2009
KOMATSU
D39 İŞ MAK. 2001 - 2011
PC220 EKSKAVATÖR 1996
- 2006
WA 380-6 YÜKLEYİCİ 2006
- 2015**ND 0221****K022****5,1x10,8x12,4****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

SBH3038S, 7.7633.1

MOTOR NO / UNIT NO

TM000A27301
VALEO
TM000A27601
VALEO
TM000A31001
VALEO
TM000A37001
VALEO

4 KÖMÜRLÜ / WITH 4 BRUSHES**HYUNDAI**ACCENT, ATOS, COUPE,
ELANTRA, EXCEL, GETZ,
MATRIX, SONATA,
CERATO, JOICE, RIO**KIA****ND 1161****JASX 115-116****4.15/7.4 x 8.35 x 16****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

0285107620, 1280996311, 1280996312

MOTOR NO / UNIT NO

2280009901	4280005871	STN9074ZD
23300AA480	SHN8040BL	STN9363SU
23300AA48A	STN0670YN	
4280000150	STN0670ZD	
4280000151	STN1363BL	
4280000152	STN1363WA	
4280002300	STN1363XY	
4280003040	STN4419YN	
4280003090	STN8363ZD	

4 KÖMÜRLÜ / WITH 4 BRUSHES**TOYOTA**Avensis 2.0 VVT-i M20 2001-//
RAV 4 III 2.0 VVT-i 4WD XA3
2006-// amry 3.0 V6 2001-//
RX300 II 3.3 V6 2003-**LEXUS**

ND 0882

JASX 88
8x25x21
24 Volt
ARAÇ MODELİ / VEHICLE MODEL
UYGUN OEM NO / REPLACING OE-REF

028510-0500, 028510-5390

MOTOR NO / UNIT NO

028000-4800	028000-6893	128000-3081	228000-0271
028000-5000	028000-6900	128000-3082	228000-0281
028000-5300	028000-6901	128000-3100	228000-0282
028000-5301	028000-6902	128000-3120	228000-0291
028000-5490	028000-6910	128000-3512	228000-0292
028000-5510	028000-6911	128000-3513	228000-0350
028000-5511	028000-6912	128000-3514	228000-0351
028000-5530	028000-6950	128000-4080	228000-0570
028000-5531	028000-6951	128000-4083	228000-0571
028000-5532	028000-7240	128000-4100	228000-0572
028000-5541	028000-7241	128000-4101	228000-0573
028000-5542	028000-7242	128000-4111	228000-0574
028000-5543	028000-7400	128000-4112	228000-0575
028000-5550	028000-7451	128000-5091	228000-0630
028000-5551	028000-7452	128000-5380	228000-0842
028000-5552	028000-7540	128000-5381	228000-1350
028000-5553	028000-7541	128000-5382	228000-1420
028000-5560	028000-7542	128000-6170	228000-1440
028000-5561	028000-7731	128000-6171	228000-1590
028000-5570	028000-7732	128000-6172	228000-1591
028000-5571	028000-7800	128000-6173	228000-1600
028000-5581	028000-7801	128000-6180	228000-1601
028000-5620	028000-7802	128000-6181	228000-1610
028000-5651	028000-7810	128000-6182	228000-1611
028000-5652	028000-7811	128000-6183	228000-1661
028000-5660	028000-8070	128000-6184	228000-1671
028000-5661	028000-8071	128000-6330	228000-1770
028000-5690	028000-8072	128000-6810	228000-1771
028000-5691	028000-8400	128000-6811	228000-1772
028000-5692	028000-8490	128000-6812	228000-1790
028000-5693	028000-8491	128000-6822	228000-1791
028000-5832	028000-8500	128000-6823	228000-1830
028000-5833	028000-8501	128000-6830	228000-2030
028000-5834	028000-8561	128000-6831	228000-2031
028000-5835	028000-8562	128000-6832	228000-2110
028000-5840	028000-8611	128000-6833	228000-2111
028000-5841	028000-8612	128000-6860	228000-2290
028000-5850	028000-8840	128000-6861	228000-2660
028000-5860	028000-8841	128000-6910	228000-3070
028000-5861	028000-8842	128000-6911	228000-3080
028000-5862	028000-9331	128000-6920	228000-3090
028000-5863	028000-9332	128000-6921	228000-3100
028000-5864	028000-9333	128000-7280	228000-3230
028000-5870	028099-3570	128000-7281	228000-3710
028000-5871	128000-0380	128000-7282	228000-3720
028000-5880	128000-0381	128000-7283	228000-3810
028000-5890	128000-0382	128000-7290	228000-4240
028000-5891	128000-0383	128000-7291	228000-4680
028000-6010	128000-0520	128000-7292	228000-4930
028000-6012	128000-0530	128000-7293	228000-4991
028000-6013	128000-0531	128000-7294	228000-5220
028000-6021	128000-0532	128000-7360	228000-5340
028000-6022	128000-0540	128000-7361	228000-5341
028000-6060	128000-0550	128000-7362	228000-5342
028000-6061	128000-0551	128000-7363	228000-5641
028000-6062	128000-0790	128000-7600	228000-5811
028000-6200	128000-0971	128000-7601	228000-5830
028000-6201	128000-0972	128000-7602	228000-5980
028000-6290	128000-0973	128000-7603	228000-5981
028000-6291	128000-1000	128000-7604	228000-5990
028000-6292	128000-1001	128000-7920	228000-6291
028000-6340	128000-1010	128000-7921	228000-6380
028000-6341	128000-1011	128000-7922	228000-6470
028000-6460	128000-1060	128000-7923	228000-6471
028000-6461	128000-1561	128000-7932	228000-7300
028000-6462	128000-1570	128000-7933	228000-7500
028000-6463	128000-1571	128000-8061	228000-7902
028000-6560	128000-1572	128000-8063	228000-9050
028000-6561	128000-1573	128000-8064	228000-9500
028000-6590	128000-1574	128000-8290	428000-0190
028000-6591	128000-1580	128000-8620	428000-0290
028000-6780	128000-1581	128000-8621	428000-1190
028000-6870	128000-1582	128000-9580	428000-1660
028000-6871	128000-1583	128000-9581	428000-1691
028000-6872	128000-1584	128000-9582	428000-1830
028000-6880	128000-1585	128000-9960	428000-1850
028000-6881	128000-1790	128000-9961	428000-1860
028000-6882	128000-2930	128000-9970	428000-2581
028000-6890	128000-2931	128000-9971	428000-2631
028000-6891	128000-2932	228000-0190	428000-3110
028000-6892	128000-2933	228000-0191	
	128000-3080	228000-0270	

4 KÖMÜRLÜ / WITH 4 BRUSHES

BOBCA İŞ MAK.	CATERPILLAR BACKHOE LOADER
ISUZU	NPR 3.9D 1984 - 1996 JCB 434S/436E 6.7D 2007 -> FORKLIFT
KOMATSU	HIACE 2.4D 1990 - 2005
TOYOTA	HILUX 2.4D 1987 - 2006 HILUX 2.5 D-4D 2006-2015

VA 1741**PSX 174****4,5x19,9x13,2****12 Volt****ARAÇ MODELİ / VEHICLE MODEL****UYGUN OEM NO / REPLACING OE-REF**

36180-03300

MOTOR NO / UNIT NO

36100-03300

HYUNDAI,

438297

VALEO,

ESM1811

VALEO,

ESM18E8

VALEO

HYUNDAI

i20 / i10 / KIA RIO 2014 /

KIA

PICANTO 2011

6 KÖMÜRLÜ / WITH 6 BRUSHES



YÜKSEK BAKIRLI KÖMÜR YUVALARI

BRUSH HOLDERS WITH HIGH COPPER DENSITY

FI 5371 CU

YENİ / NEW



JSX 35-37 CU

7x13x17,5

12 Volt

UYGUN OEM NO / REPLACING OE-REF

83221241, 83224461, 83225359, 83226216

MOTOR NO / UNIT NO

50246532	63103022	63223032	63293103
50246648	63103031	63223033	83221241
63101000	63192000	63223034	83224461
63102000	63222831	63223035	83225359
63102003	63222832	63223085	83226216
63102004	63222833	63223101	
63102007	63222836	63223103	
63102008	63222837	63223104	
63103002	63222838	63223106	
63103003	63222900	63223108	
63103007	63222901	63223182	
63103008	63222904	63230001	
63103015	63223031	63230003	

3 KÖMÜRLÜ / WITH 3 BRUSHES

ARAÇ MODELİ / VEHICLE MODEL

FIAT

500 1.2/1.4L 2007 ->
ALBEA 1.4L 2007 - 2012 BRAVA/BRAVO
1.6L 1995 - 2001 BRAVA/BRAVO 1.4L
1995 - 2001 BRAVA/BRAVO 1.2L 1998 -
2002 BRAVO 1.4L 2007 - 2013 G.PUNTO
1.2/1.4L 2005 -> IDEA 1.2/1.4L 2004
- 2012 LINEA 1.4L 2007 - 2016 MAREA
1.2L 1998 - 2002 MAREA 1.4L 1996 -
2002 MAREA 1.6L 1996 - 2002 PALIO
1.4L 1996 - 1999
PALIO 1.6L 1996 - 2001 PANDA
1.1/1.2/1.4L 2004 - 2012 PUNTO 1.1L
1993 - 1999 PUNTO 1.2L 1994 - 2010
SIENA 1.2L 1998 - 2007 SIENA 1.4L 1996
- 2007 SIENA 1.6L 1998 - 2007 STILO
1.2/1.4L 2001 - 2010 TEMPRA 1.6L 1994 -
1996 TIPO 1.6L 1988 - 1990

NISSAN

PRIMERA 1.6L 1996 - 2001

MA 3241 CU**MASX 23-24 CU****10x25x23****12 Volt****UYGUN OEM NO / REPLACING OE-REF**

72164701, 72362701

MOTOR NO / UNIT NO

632 168 02,	632 168 31,
632 168 08,	632 168 33,
632 168 11,	632 168 51,
632 168 14,	632 168 59,
632 168 15,	632 168 73,
632 168 16,	632 168 74,
632 168 17,	632 168 76,
632 168 18,	632 168 84,
632 168 25,	632 168 96,
632 168 26,	632 168 98
632 168 27,	

4 KÖMÜRLÜ / WITH 4 BRUSHES**ARAÇ MODELİ / VEHICLE MODEL****DODGE****DESOTO/FAGO/** AS900**FIAT** 65.46/65.66/65.9 0

1985 - 1987

70.65/70.66/70.90

1984 - 1988

80.65/80.66/80.90/85.55

1984-1988

IVECO8041/8051/8061 MARINE
MOTOR**MI 1701 CU****JASX 70****6,8x11,8x17,2****12 Volt****UYGUN OEM NO / REPLACING OE-REF**

M649T20471, M649X20471, ME701467

MOTOR NO / UNIT NO

1810A050	M2T85271	M8T70175	MD344183
1810A053	M2T85371	M8T70371	MD348221
M001T75283	M2T85671	M8T70471	ME201650
M002T84071	M2T85672	M8T70471A	ME201650A
M002T84171	M2T85771	M8T70472	ME202970
M002T84271	M2T85871	M8T71371	ME204424
M002T84571	M2T87071	M8T71371ZE	ME204424A
M002T84771	M2T87071ZT	M8T71471	ME204425
M002T87071	M2T87072ZT	M8T71471ZE	ME204425B
M002T87171	M2T87171	M8T71571	
M002T87271	M2T87171ZT	M8T75071	
M002T87371	M2T87271	M8T75071A	
M002T87471	M2T87271ZT	M8T75073	
M002T87671	M2T87371	M8T75073A	
M002T87971	M2T87471	M8T75074	
M002T88071	M2T87671	M8T75171	
M008T70171	M2T87971	M8T75271	
M008T75071	M2T88071	M8T75371	
M008T75071A	M2T88171	M8T75671	
M1T75283	M2T88271	M8T75871	
M2T84071	M2T88372	M8T75971	
M2T84071ZT	M2T88471	M8T76071	
M2T84171	M2T88473	M8T76072	
M2T84171ZT	M2T88671	M8T76072ZE	
M2T84271	M2T88971	MD312857	
M2T84371	M2TS0471	MD312858	
M2T84471	M2TS0571	MD314167	
M2T84571	M2TS0575	MD315547	
M2T84671	M2TS0671	MD315548	
M2T84771	M8T70071	MD331137	
M2T85071	M8T70171	MD344182	

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

CHEROKEE 4.0L 1987 - 1997

G.CHEROKEE 4.0L 1993 -

2004

HYUNDAI

H100 2.5D 1993 - 2000

STAREX 2.5 TD 2000 - 2007

H1 2.5 CRDI 2007 ->

KIA

BONGO K2500 2002 ->

MAZDA

B2500 2.5D 1996 - 2006

BT50 2.5D 2006 - 2011

E2200 2.2D 1997 - 2002

MITSUBISHI

CANTER 2.8D 1998 - 2000

CANTER 3.0 TD 2000 -

2002 CANTER FE711 3.0D

2006-2013 L200 2.5D 1996

-> L300 2.5D 1986 - 2006

LANCER 1.8D 1986 - 1992

PAJERO 2.8 TD 1995 - 2000

PAJERO 3.2 DI-D 2000 ->

NISSAN

NAVARA 2.5 DCI 2010 - 2015

SKYSTAR 2.5 DCI 2001 -

2007 X-TRAIL 2.0/2.2 DCI

2003-2013

OPEL

MOVANO 2.5D 1998 - 2001

RENAULT

MASTER 2.5 D 1997 - 2003

MASTER 2.8 TD 1997 - 2003

SUZUKI

G.VITARA 2.5 HDI 2000 -

2005

MARŞ MOTORU KÖMÜRLERİ

STARTER BRUSHES



Takım Sipariş Kodu / Set Order Code
**Özellikler
Properties**
Motor Numarası / Unit No.
Araç Modeli/Vehicle Model
BSX 253
**1 004 320 308
1 004 320 327
1 004 320 328
1 004 320 337**

6-BS 253

0 001 170 400-403,406,407,410,411
600,601,604,605,624,625, 628,629,640,641
0 001 172 400,401,604,605
0 001 180 602,603
SC70-S 12V(R)
SCL70-M,-S 12V(R)
SCL70-MX 12V(R)

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

4,5x14x13/11,5
BMW
Chrysler 56029 640AA
FIAT 519 161 68-70
519 384 39
519 756 77
552 545 83
Ford FS51-11000-AA,-BA
GV6T-11000-AA
GV6Z-11002-A
1881471
Nissan 23300-0379R
23300-7224R
Opel 5559 149223 30 003
Renault 79R 23
30 048 68R
23 30 072 24R

BSX 247
**1 004 320 255
1 004 320 325**
YENİ / NEW

6-BS 247

0 001 138 013
0 001 147 420
0 001 147 421
0 001 147 430
0 001 147 431
0 001 147 432
0 001 147 433

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

4,5x14x13,8
K 023

6-K023

0001170629
0001174600
0001174601

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

4,5x14x13/11,5
**RENAULT MEGANE III
SCENIC III
BOSCH TYP 6 KOHLE
VW
AUDI
SEAT 170 SR.
START - STOP**
K 025
**1 004 339 000
1 004 339 005
1 004 339 020**
YENİ / NEW

BO 0251

0001192008
0001192009
0001192046
0001192047
0001192068
0001192069
0001192080
0001192081
0001192083
0001192086
0001192087
0001194019
F000C60299
F000C60300
STB2505BA
STB9450BA

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

4,5x14x13,8/12,3
OPEL Astra J 1.4L

K 022**K 022/B****K 022/A****1-K022 A**
1-K022 BGerilim / Voltage
(Volt)**12**Ölçü / Dimension
(mm)**5,1x10,8x12,4**TM000A27301
VALEO
TM000A27601
VALEO
TM000A31001
VALEO
TM000A37001
VALEOHYUNDAI ACCENT
ATOS
COUPE
ELANTRA
EXCEL
GETZ
MATRIX
SONATA
KIA CERATO
JOICE
RIO

Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

K 018**4-K018**Gerilim / Voltage
(Volt)**12**Ölçü / Dimension
(mm)**4,3x13,1x12**

3610026800
3610026850
80000475
8000174
8000175
96467385
96497702
STD1422BA
STD1422YJ
STD2685KR

CHEVROLET Spark
DAEWOO Matiz, Tico
SUZUKI Wagon

**RX 122 H****1 852 883****4-R 122**Gerilim / Voltage
(Volt)**24/32**Ölçü / Dimension
(mm)**9,5x38,2x21,4**

10451047	1114172	1114840	1114892	1114963
10461046	1114189	1114841	1114893	1114964
10461047	1114194	1114842	1114896	1114967
10461047	1114682	1114843	1114897	1114968
10461059	1114687	1114844	1114898	1114969
10461107	1114688	1114845	1114901	1114970
10461107	1114707	1114846	1114903	1114971
10461178	1114710	1114847	1114904	1114972
10461178	1114719	1114848	1114905	1114973
10461179	1114722	1114849	1114907	1114974
10461179	1114723	1114850	1114909	1114977
10461242	1114725	1114851	1114910	1114979
10461242	1114726	1114852	1114911	1114981
1113859	1114748	1114853	1114913	1114982
1113860	1114749	1114854	1114914	1114985
1113865	1114750	1114855	1114915	1114987
1113869	1114751	1114856	1114916	1114989
1113877	1114753	1114857	1114921	1114990
1113878	1114755	1114858	1114922	1114993
1113889	1114756	1114859	1114923	1114995
1113899	1114759	1114860	1114925	1114996
1113908	1114760	1114861	1114926	1114999
1113911	1114762	1114862	1114927	1990201
1113921	1114763	1114863	1114928	1990202
1113927	1114767	1114864	1114929	1990210
1113939	1114769	1114865	1114930	1990213
1113945	1114772	1114866	1114931	1990214
1113953	1114786	1114867	1114932	1990215
1113954	1114788	1114868	1114933	1990216
1113979	1114789	1114869	1114935	1990217
1114055	1114790	1114869	1114936	1990219
1114058	1114795	1114870	1114941	1990221
1114072	1114797	1114871	1114943	1990279
1114086	1114798	1114872	1114945	1990296
1114088	1114799	1114873	1114947	1990297
1114090	1114800	1114874	1114948	1990303
1114112	1114801	1114875	1114949	1990307
1114115	1114803	1114876	1114950	1990323
1114119	1114805	1114877	1114951	1990324
1114126	1114813	1114878	1114952	1990328
1114128	1114816	1114879	1114953	1990340
1114133	1114830	1114880	1114957	1990343
1114140	1114832	1114883	1114958	1990346
1114148	1114834	1114885	1114959	1990482
1114157	1114836	1114889	1114960	1993700
1114165	1114839	1114891	1114961	1993704

CATERPILLAR
MACK
VOLVO
FORD



MARŞ MOTORU KÖMÜRLERİ/STARTER BRUSHES - Replacing VALEO

PSX 174

1197541
1203248



6-PS 174

36100-03300
HYUNDAI, 438297
VALEO, ESM1811
VALEO, ESM18E8
VALEO

HYUNDAI i20 / i10 /
KIA RIO 2014 /
PICANTO 2011

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

4,5x19,9x13,2



MARŞ MOTORU KÖMÜRLERİ/STARTER BRUSHES - Replacing NIPPON DENSO

Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

HYUNDAI H1



HYUNDAI H1/A



HYUNDAI H1/B

2-HYUNDAI-H1A
1-HYUNDAI-H1B

36180 2E200
36180 4A200

HYUNDAI H1 2.5CRDI 2008
KIA K2500 2.5 CRDI
2010

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

4,5x20x14

Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

LASX 15-16 CU271 735
(TAB125)

LAS 16

LAS 15

LU 5161 CU

2-LAS 15
2-LAS 16Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

8x19x22,2

7,9x19,05x22,2

26132	26219	26306E/H	27435
26132H/R	26220	26310A/D	27436
26133	26231	26310E/F	27437
26133K/R	26232	26320A/B	27438
26143	26233	26320D/J	27439
26143J/Q	26233K/M	26321	27440
26145	26236A/K	26321A/B	27443
26145H/N	26236L/26238A/L	26321D/F	27446
26146	26238M/Q	26324	27447
26146H/N	26244	26325	27448
26147	26248A/L	263	27449
26147J/M	26248M	26	27452
26148	26251	26327	27457
26148H/N	26255	26333	27458
26149	26256	26335/26346A/D	27459
26149H/M	26256A/E	26346E	27463
26150	26256H	26346E/K	27465
26150H/M	26259	26347	27468
26151	26259A/K	26348	27469
26151H/N	26259L/N	26362	27470
26152	26260	26364	27474
26152H/M	26260F/J	26370	27475
26153	26263	26371	27476
26153J/N	26264A/F	26372	
26154	26264H/K	26373	
26154J/N	26266	26375	
26157	26267	26381A/D	
26157H/M	26268	26381E/F	
26158	26268J/L	26383	
26158E/K	26269A/F	26385	
26159	26269H/L	26390	
26159E/J	26270	26391	
26163	26271	26394	
26166	26271F/J	26396	
26166E/L	26275A/E	26400	
26167	26275F/K	26412	
26167E/L	26278A/F	26413	
26169	26278H	26422	
26169E/K	26279A/E	27403	
26170	26279F/K	27405	
26170E/M	26280A/E	27406	
26172	26280F/J	27407	
26173	26281	27409	
26173B/F	26281A/E	27410	
26177	26281A/F	27411	
26178	26281F/J	27412	
26185	26283A/F	27413	
26186	26283H/K	27414	
26187	26285A/E	27415	
26189	26285F	27416	
26190	26286A/E	27417	
26192	26286F/J	27418	
26193	26287A/E	27419	
26196	26287F/J	27420	
26197	26288A/E	27421	
26198	26288F	27422	
26199	26295F	27423	
26200	26300A/E	27424	
26201	26300A/J	27425	
26206	26300F/J	27425A	
26208	26301A/E	27425B	
26209	26301A/F	27426	
26212	26301H	27427	
26213	26302A/D	27428	
26215	26302E/H	27432	
26215H	26306A/D	27433	

CASE TRAKTOR

M.FERGUSON MF 240 /
245 / 255
/ 265 / 275
/ 285 / 565
/ 575

N.HOLAND

5640 /
6640 /
7740/7840 /
8240 /
8340
1991-1998

BMC

DEFENDER
LAND ROVER

ALTERNATÖR KÖMÜRLERİ

ALTERNATOR BRUSHES





ALTERNATÖR KÖMÜRLERİ/ALTERNATOR BRUSHES - Replacing BOSCH

Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

BX 208

1 127 014 028



2-B 208

Gerilim / Voltage
(Volt)

12/24

Ölçü / Dimension
(mm)

4x6x17,5

0 120 335 006-008,010-012,

VOLKSWAGEN PASSAT,
POLO GOLF,
SHARAN
VENTO
CADDY
TRANS-
PORTER
SEAT TOLEDO
IBIZA,
CORDOBA
CORSA

OPEL
VOLVO
BMW
MERCEDES
PEUGEOT

ALTERNATÖR KÖMÜRLERİ/ALTERNATOR BRUSHES - Replacing MITSUBISHI



Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

JAA36 ST2

141239



2-JAA36

Gerilim / Voltage
(Volt)

14/28

Ölçü / Dimension
(mm)

5x8x24,5

1516176
1777299
5010480765
7420842441
7421056611
A003TA8491
A004TR5188ZT
A004TR5191
A004TR5191ZT
A004TR5291
A004TR5291AT
A004TR5291ZT
A004TR5391
A004TR5591ZT
A004TR5894ZT
A3TA8491
A3TA8491
A3TR5092
A3TR5093
A4TR5091
A4TR5091ZT
A4TR5188ZT
A4TR5191
A4TR5191ZT
A4TR5291
A4TR5291A
A4TR5291AT
A4TR5291ZT
A4TR5391
A4TR5391ZT
A4TR5392
A4TR5393
A4TR5491AT
A4TR5491ZT
A4TR5591
A4TR5591ZT

A4TR5592
A4TR5593
A4TR5691
A4TR5691ZT
A4TR5891
A4TR6791
ALM0930UX
ALM0930WA
ALM1842BS
ALM1842GB
ALM1842LP
ALM1842UX
ALM1842WA
ALM1880DD
ALM1880GB
ALM1880LK
ALM1880UX
ALM1880WA
ALM1880YX
ALM1883KL
ALM1883LK
ALM1883UX
ALM1883WA
ALM1883YX
ALM1947
ALM1947UX
ALM1947WA
ALM1947YJ
ALM1947YX
ALM2019BS
ALM2019LP
ALM2019UX
ALM2019WA
ALM2019YJ
ALM2019YX
ALM2039UX

ALM2039WA
ALM2039YJ
ALM3391WA
ALM3536BS
ALM3536LK
ALM3592BS
ALM3592LK
ALM3691AN
ALM3691BS
ALM3691GB
ALM3691LK
ALM3691LP
ALM3691NW
ALM3691UX
ALM3691WA
ALM3840YJ
ALM3891BS
ALM3891LP
ALM3891UX
ALM3891WA
ALM4930LP
ALM4930WA
ALM5577GB
ALM5577LK
ALM5577UX
ALM5577WA
ALM8330BS
ALM8691NW
ALM8930WA
ALM8991UX
ALM8991WA
ALM8991YJ
ALM8991YX
ALM9842YJ
ALM9842YX
ALM9883BS

Volvo
Renault Tır
RENAULT

BUS Agora 9.9
1998-
MI7R06.20.45
B41/C41 /
BUS Ares 300
1998- MIDR
06.20.45 R41 /
BUS Iliade 9.9
1996-2001
MIDR 06.20.45
/ TRUCK Kerax
260 1997-2002
MIDR 06.20.45
C/4 / TRUCK
Magnum
AE390 1996-
2000 MIDR
06.24.65A4
/ RENAULT
TRUCK Midlum
I 270 2001-
2006 dCi 6A /
TRUCK Pre-
mium HD210
1996-2001
MIDR 06.02.26
W4 //
114 1996-2004
10600ccm
DC11

SCANIA

Takım Sipariş Kodu / Set Order Code
**Özellikler
Properties**
Motor Numarası / Unit No.
Araç Modeli/Vehicle Model
JAAX 36 ST
**A647X50170
A647X50270
A647X50870**

2-JAA 36
**Gerilim / Voltage
(Volt)**
12
**Ölçü / Dimension
(mm)**
5x8x23

0118318KZ 0986045741 0K30D18300 1088304 1098747 1122238 1140138 1140139 1-3600-25W 1436602 1478228 1800A005 1800A007 1800A052 1800A053 1800A067 1800A117 1800A211 1J43164012 231000E711 231000E716 231000M010 231000M810 231000M811 231000T060 231000V010 231000Y710 231001AA1A 231001AT1A 231001HS1A 231001KA1M 231002J10 231002543R 231002J010 231003P10 2310035F10 231003VDIA 2310047R10 231004HK1A 231004HK6A 231005M310 2310064J13 2310077A10 231009UA0A 23100AD210 23100CD010 23100DC000 23100JR51A 23700AA370 23700AA390 23700AA401 23700AA521 23700AA620 23700AA63A 23700AA710 23700AA770 23700KA800 2S6T10300CB 2S6T10300CC 2S6T10300CD 2S6T10300DB 2S6T10300DC 2S6T10300DD 31100P73A01 31100RV4004 3140065J10 3140078K20 3140080J10 3601014 3701020BE00 3730042354 3730042360 3730042459 3730042710 3730042750 3730045500 373004A110 373004A201 373004A203 373004X000 373004Z500 3C00174012 465Q2D1H3701950 465Q2D3701950 476Q1L3701950 5705GZ 600005 600024 600049 8200660053 92193199 98MF10300CA 98MF10300CC A002T01384 A002T01483 A002T01683 A002T01783 A002T02084 A002T06384 A002T10083 A002T13894 A002T19677 A002T19777 A002T33191 A002T33191A A002T37391 A002T49476 A002T82491 A002T82491A A002T82491B A002TA0891 A002TA2492 A002TA4091 A002TA4091A A002TA4092A A002TA5191 A002TA8383	A002TB0091 A002TB0091A A002TB3091 A002TB3691 A002TB3691KD A002TB5391 A002TB6991 A002TC0691 A002TC0982 A002TC1391ZC A002TG0391 A002TJ0791 A002TN0399 A002TK0091 A003T00599 A003T05499 A003T14491 A003T15099 A003TA0791 A003TA1191 A003TA5491 A003TA6581 A003TB0291 A003TB1081 A003TB4191 A003TG0081 A003TG0091 A003TG0491 A003TG1391 A003TG1391A A003TG3181 A003TG4191 A003TG5281ZE A003TG5281ZEB04 A003TG5281ZEB A003TG5291 A003TG5291ZE A003TJ0781 A003TJ0781AE A003TN0299 A003TN0499 A003TN1791 A003TN2481A A003TN5082 A003TX0381ZC A003TX0692ZC A004TJ0084 A004TJ0481 A004TJ0582 A004TJ0881 A005T00192 A005T03092 A005T03192 A005T04392A A005T04492A A005T04492B A005TA3891 A005TA3891A A005TA3891AC A005TA3891C A005TA3891ZC A005TA4291 A005TA6292C A005TA6292F A005TA6292G A005TA6292ZE A005TA7091 A005TA7091ZE A005TA7191ZC A005TA7792 A005TA7981A A005TG0091 A005TG0091AE A005TG0091ZE A005TG0192A A005TG0192B A005TG0991 A1321540001 AT03191 AT03292 ATA1777 ATA2291 ATA2293 ATA3091 ATA3391 ATA3391A ATA3391B ATA3391C ATA3392 ATA3891 ATG0281 A2T01384 A2T01483 A2T01583 A2T01683 A2T01783 A2T01976 A2T02084 A2T04599 A2T05892A A2T06384 A2T09591 A2T09884 A2T10083 A2T13894 A2T13977 A2T13977X A2T14376 A2T14694 A2T14876 A2T17491 A2T17783 A2T18177 A2T18277	A2T18476 A2T18479 A2T18874 A2T19677 A2T19877 A2T19991 A2T27594 A2T27594 A2T27883 A2T28792 A2T28976 A2T33191 A2T33191A A2T33991 A2T34477 A2T34598 A2T34892 A2T35091 A2T35092 A2T35177 A2T35177 A2T35277 A2T36392 A2T36478 A2T36578 A2T36578A A2T36684 A2T36776 A2T37291 A2T37391 A2T37976 A2T38291 A2T38391 A2T38491 A2T38676 A2T38776 A2T38892 A2T38892 A2T39091 A2T39291 A2T39391 A2T39391A A2T39991 A2T39992 A2T39992A A2T40092 A2T49377 A2T49476 A2T49577 A2T73676 A2T74976 A2T75076 A2T80591A A2T81192 A2T81791 A2T82378 A2T82491 A2T82491A A2T82491B A2T82899 A2T82899A A2T83084 A2TA0291 A2TA0891 A2TA1099 A2TA1099A A2TA2292 A2TA2392 A2TA2492 A2TA2871 A2TA2871A A2TA3791 A2TA4091 A2TA4091A A2TA4092A A2TA4092B A2TA5191 A2TA5192 A2TA5192A A2TA5391 A2TA5391ZT A2TA5392 A2TA5393 A2TA5393ZC A2TA5394 A2TA5991 A2TA6099 A2TA6099A A2TA6099AT A2TA7191 A2TA8383 A2TB0091 A2TB0091A A2TB0191 A2TB0191A A2TB0191A A2TB0491 A2TB0892 A2TB1298 A2TB1299 A2TB1491ZC A2TB2791 A2TB2891 A2TB2991 A2TB3091 A2TB3191 A2TB3191A A2TB3691 A2TB3691KD A2TB3891 A2TB4791 A2TB5391 A2TB5791 A2TB5791ZC A2TB5891	A2TB6481 A2TB6991 A2TB7391 A2TB7591 A2TB8691 A2TG0091 A2TG0391 A2TG0591 A2TG0691 A2TG0891 A2TG0981 A2TG0982 A2TG1391 A2TG1391ZC A2TG1391ZE A2TG1877A A2TG0091 A2TG0191 A2TG0191ZC A2TG0391 A2TG0691 A2TG0791 A2TG0891 A2TG1081 A2TG1281ZT A2TG1381A A2TG1581 A2TG1691ZC A2TG2181 A2TG2191 A2TJ0281 A2TJ0291ZE A2TJ0391 A2TJ0391B A2TJ0391C A2TJ0481 A2TJ0481ZC A2TJ0581 A2TJ0681 A2TJ0881 A2TJ1291 A2TJ1381 A2TJ1591 A2TJ1791 A2TJ1881 A2TJ1891ZC A2TJ0291 A2TN0076A A2TN0076A A2TN0399 A2TN0499 A2TN0678 A2TN1199 A2TN1199A A2TN1299 A2TN1798 A2TN1798A A2TN1798AT A2TN3279 A2TN3381 A2TN3781 A2TX0281 A2TX0781 A2TX0881 A2TX0881A A2TX0891 A2TX1081 A2TX1491 A2TX1591 A2TX1781 A2TX1981 A2TX1991 A2TX1991ZT A2TX2081 A2TX2291 A2TX2491 A2TX2581 A2TX2881 A2TX2991 A2TX3081 A2TX3291 A2TX3581ZC A2TX4981ZT A2TX6081 A2TX9181 A3T00599 A3T00896 A3T00896ZC A3T01871 A3T01871 A3T01877 A3T01877A A3T03099 A3T04177 A3T04199 A3T04999 A3T05192 A3T05499 A3T06099 A3T07483 A3T	CITROEN C3 1.4 VTI [8FP(EP3)] 01.2009- C3 1.6 VTI [5FS(EP6C)] 01.2009- C3 Picasso 1.4 VTI [8FS0F- N(EP3)] 01.2009- CITROEN C4 1.4 VTI [8FP(EP3)] 01.2009- C4 1.6 THP [5FV(EP6C- DT)] 01.2009- CITROEN C4 1.6 VTI [5FS(EP6C)] 01.2009- C4 Grand Picasso 1.6 16V [5FT5FX(EP6DT)] 01.2008- C4 Grand Picasso 1.6 THP 155 [5FV(EP6DT)] 01.2010- C4 Grand Picasso 1.6 VTI120 [5FV(EP6)] 01.2008- C4 Picasso 1.6 16V [5FX(EP6DT)] 01.2008- C4 Picasso 1.6 THP [5FT(EP6DT)] 01.2008- C4 Picasso 1.6 THP [5FV(EP6C)] 01.2008- C4 Picasso 1.6 VTI [5FV(EP6)] 01.2008- C5 11.6 VTI 5FD5FV(EP- 6C)] 01.2010- DS3 1.6 Racing [5FD5FV(EP6C)] 01.2011- DS4 1.6 THP [5FV(EP6- DT)] 01.2011- DS4 1.6 VTI120 [5FS(EP6C)] 01.2011- DS5 1.6 THP 155 [5FV(EP- 6DT)] 01.2011- DS5 1.6 THP 163 [5FV(EP6DT)] 01.2011- 1.6 [N12B16A] 01.2006-12.2007 1.6 [N12B16A] 01.2007- 1.6 Club- man [N12B16A] 01.2006-12.2007 S 1.6 [N14B16A] 01.2006-12.2007 S 1.6 [N14B16A] 01.2007- S 1.6 Clubman [N14B16A] 01.2007- MINI One 1.4 [N12B14A] 01.2006- MINI One 1.4 [N12B14A] 01.2007- MINI One 1.6 [N16B16A] 01.2007- MINI One 1.6 Clubman [N16B16A] 01.2009- 207 1.6 Turbo 01.2006- 207 1.6 VTI [5FS(EP6)] 01.2007 Colt 1.1 [3A91] 01.2004- Colt 1.3 [4A90] 01.2004- Colt 1.3 [4A90] 01.2008- Colt 1.5 [4A91] 01.2004- Colt 1.5 [4A91] 01.2008- Lancer 1.5 [4A61] 01.2008- Lancer- er 1.5 [4A91] 01.2008- SMART Forfour 1.1 [M134.910] 01.2004- SMART Forfour 1.1 [M134.911] 01.2004- SMART Forfour 1.3 [M135.930] 01.2004- SMART Forfour 1.5 [M135.950] 01.2004-12.2007 SMART Forfour 1.5 Brabus [M122.950] 01.2004-12.2007	MINI Cooper 1.6 [N12B16A] 01.2007- 1.6 Club- man [N12B16A] 01.2006-12.2007 S 1.6 [N14B16A] 01.2006-12.2007 S 1.6 [N14B16A] 01.2007- S 1.6 Clubman [N14B16A] 01.2007- MINI One 1.4 [N12B14A] 01.2006- MINI One 1.4 [N12B14A] 01.2007- MINI One 1.6 [N16B16A] 01.2007- MINI One 1.6 Clubman [N16B16A] 01.2009- 207 1.6 Turbo 01.2006- 207 1.6 VTI [5FS(EP6)] 01.2007 Colt 1.1 [3A91] 01.2004- Colt 1.3 [4A90] 01.2004- Colt 1.3 [4A90] 01.2008- Colt 1.5 [4A91] 01.2004- Colt 1.5 [4A91] 01.2008- Lancer 1.5 [4A61] 01.2008- Lancer- er 1.5 [4A91] 01.2008- SMART Forfour 1.1 [M134.910] 01.2004- SMART Forfour 1.1 [M134.911] 01.2004- SMART Forfour 1.3 [M135.930] 01.2004- SMART Forfour 1.5 [M135.950] 01.2004-12.2007 SMART Forfour 1.5 Brabus [M122.950] 01.2004-12.2007	PEUGEOT 207 1.6 Turbo 01.2006- 207 1.6 VTI [5FS(EP6)] 01.2007 Colt 1.1 [3A91] 01.2004- Colt 1.3 [4A90] 01.2004- Colt 1.3 [4A90] 01.2008- Colt 1.5 [4A91] 01.2004- Colt 1.5 [4A91] 01.2008- Lancer 1.5 [4A61] 01.2008- Lancer- er 1.5 [4A91] 01.2008- SMART Forfour 1.1 [M134.910] 01.2004- SMART Forfour 1.1 [M134.911] 01.2004- SMART Forfour 1.3 [M135.930] 01.2004- SMART Forfour 1.5 [M135.950] 01.2004-12.2007 SMART Forfour 1.5 Brabus [M122.950] 01.2004-12.2007	MITSUBISHI Colt 1.1 [3A91] 01.2004- Colt 1.3 [4A90] 01.2004- Colt 1.3 [4A90] 01.2008- Colt 1.5 [4A91] 01.2004- Colt 1.5 [4A91] 01.2008- Lancer 1.5 [4A61] 01.2008- Lancer- er 1.5 [4A91] 01.2008- SMART Forfour 1.1 [M134.910] 01.2004- SMART Forfour 1.1 [M134.911] 01.2004- SMART Forfour 1.3 [M135.930] 01.2004- SMART Forfour 1.5 [M135.950] 01.2004-12.2007 SMART Forfour 1.5 Brabus [M122.950] 01.2004-12.2007
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- DİRKELİYOR KÖMÜRÜ FRI / STEERING WHEEL PUMP BRUSHES
- FAN KÖMÜRLERİ / FAN BRUSHES
- KLİMA KÖMÜRLERİ / AIR CONDITION BRUSHES
- SCOOTER VE MOTOSİKLET KÖMÜRLERİ / SCOOTER AND MOTORCYCLE BRUSHES
- YÜKSEK BAKIRLI KÖMÜRLER / BRUSHES WITH HIGH COPPER DENSITY
- DİĞER KÖMÜRLER / OTHER BRUSHES

ÇEŞİTLİ KÖMÜRLER

MISCELLANEOUS BRUSHES

KLİMA KÖMÜRLERİ/AIR CONDITION BRUSHES



Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

MEGA 216



2-MEGA216

Gerilim / Voltage
(Volt)

12/24

Ölçü / Dimension
(mm)

8,2x9,3x2

KLİMA / AIR CONDITION

MEGA 217

YENİ / NEW



4-MEGA217

Gerilim / Voltage
(Volt)

24

Ölçü / Dimension
(mm)

9,3x8,2x17

KLİMA / AIR CONDITION

YÜKSEK BAKIRLI KÖMÜRLER/BRUSHES WITH HIGH COPPER DENSITY



BSX 86-87 CU

2 007 014 044
2 007 014 052



BS 86

BS 87

2-BS 86
2-BS 87

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

10x25x23

0 001 358 200	0 001 359 030	0 001 359 058	0 001 359 089
0 001 358 202	0 001 359 031	0 001 359 059	0 001 359 090
0 001 359 001	0 001 359 032	0 001 359 060	0 001 359 091
0 001 359 004	0 001 359 033	0 001 359 061	0 001 359 092
0 001 359 006	0 001 359 034	0 001 359 062	0 001 359 094
0 001 359 007	0 001 359 035	0 001 359 063	0 001 359 095
0 001 359 008	0 001 359 036	0 001 359 064	0 001 359 096
0 001 359 010	0 001 359 037	0 001 359 065	0 001 359 097
0 001 359 011	0 001 359 038	0 001 359 066	0 001 359 098
0 001 359 012	0 001 359 039	0 001 359 067	0 001 359 099
0 001 359 013	0 001 359 040	0 001 359 068	0 001 359 100
0 001 359 014	0 001 359 041	0 001 359 069	0 001 359 101
0 001 359 016	0 001 359 043	0 001 359 071	0 001 359 102
0 001 359 018	0 001 359 044	0 001 359 072	0 001 359 104
0 001 359 019	0 001 359 045	0 001 359 073	0 001 359 022
0 001 359 020	0 001 359 046	0 001 359 074	0 001 359 017
0 001 359 021	0 001 359 047	0 001 359 075	0 001 365 004
0 001 359 023	0 001 359 048	0 001 359 076	0 001 365 005
0 001 359 024	0 001 359 049	0 001 359 081	0 001 365 006
0 001 359 025	0 001 359 050	0 001 359 082	0 001 365 007
0 001 359 026	0 001 359 051	0 001 359 083	0 001 365 008
0 001 359 027	0 001 359 053	0 001 359 084	9 000 143 107
0 001 359 028	0 001 359 054	0 001 359 085	9 000 143 109
0 001 359 029	0 001 359 055	0 001 359 086	9 000 143 110
	0 001 359 056	0 001 359 087	9 000 143 111
	0 001 359 057	0 001 359 088	

IVECO 49 NC
DODGE AS 600
MACK

Takım Sipariş Kodu / Set Order Code
**Özellikler
Properties**
Motor Numarası / Unit No.
Araç Modeli/Vehicle Model
BSX 175-176 CU
**1 004 320
154,156,169,214
1 004 320
155,157,170,215**

BSX 175

BSX 176
**2-BS 175
2-BS 176**
**Gerilim / Voltage
(Volt)**
12
**Ölçü / Dimension
(mm)**
5x12x11,6

0001 106 011	0001 107 037	0001 107 068	0001 107 097
0001 106 014	0001 107 038	0001 107 069	0001 107 103
0001 106 015	0001 107 040	0001 107 073	0001 107 104
0001 106 016	0001 107 041	0001 107 074	0001 121 001
0001 107 009	0001 107 043	0001 107 075	0001 121 002
0001 107 012	0001 107 044	0001 107 076	6004 AA0 003
0001 107 014	0001 107 045	0001 107 078	6004 AA0 018
0001 107 015	0001 107 046	0001 107 079	9000 081 004
0001 107 016	0001 107 047	0001 107 080	9000 081 006
0001 107 017	0001 107 048	0001 107 082	9000 081 007
0001 107 018	0001 107 049	0001 107 083	9000 694 022
0001 107 019	0001 107 054	0001 107 085	9000 694 035
0001 107 024	0001 107 055	0001 107 087	9000 694 044
0001 107 025	0001 107 058	0001 107 088	9007 045 009
0001 107 026	0001 107 059	0001 107 089	9007 045 018
0001 107 027	0001 107 060	0001 107 090	9007 045 020
0001 107 028	0001 107 061	0001 107 091	B 001 110 240
0001 107 029	0001 107 062	0001 107 092	
0001 107 030	0001 107 063	0001 107 093	
0001 107 033	0001 107 066	0001 107 094	
0001 107 034	0001 107 067	0001 107 095	

AUDI	AUDI A4 1.6L/1.8L 1994 - 2004 A6 1.8L 1998 - 2002 A6 2.0L 1994 - 1997 , 2000 - 2004
M.BENZ	M.BENZ 200 2.0L KOMP 2000 - 2003 C180 1.8L/2.0L 1993 - 2001 C200 2.0L 1994 - 2001 C230 2.3L 1995 - 2001 CLK 200 2.0L/2.0L KOMP. 1996- 2001 E200 2.0L/2.0L KOMP. 1993- 2003 SLK200 2.0L/2.3L KOMP. 1996- 2000
NISSAN	NISSAN MICRA 1.3L 1992 - 2000
MICRA	
OPEL ASTRA	OPEL ASTRA F 1.6L 1995 - 1998 VECTRA A 1.8L 1988 - 1995 VECTRA B 1.6L/2.0L 1995 - 2002
RENAULT	RENAULT CLIO 1.2L 1990 - 1998 CLIO 1.4L 1990 - 2007 CLIO 1.6L 1998 - 2005 KANGOO 1.4L 1998 - 2008 LAGUNA 1.8L/2.0L 1994 - 2001 MEGANE 1.4L/1.6L/2.0L 1995 - 2003 R19 1.4L 1988 - 1995 R21 1.7L 1986 - 1994 SAAB 93 2.0T 1999 - 2003 95 2.0L 2001 - 2010 SMART FORT- WO 0.8 CDI 2004 - 2014
TOYOTA	TOYOTA COROLLA 1.6L 1987 - 1992 COROLLA 1.6L 1995 - 1999 VW LUPO 1.4L 1999 - 2005
POLO	POLO 1.4/1.6L 1996 - 2001
PASSAT	PASSAT 1.6L/1.8L 1996 - 2003

Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

MASX 23-24 CU721 647 01
721 658 01

MAS 23

MAS 24

2-MAS 23
2-MAS 24Gerilim / Voltage
(Volt)**12**Ölçü / Dimension
(mm)**10x25x23**MT 68 AD
MT 68 LC
MT 68 MC
MT 68 PA
MT 68 PB
MT 68 RA
MT 68 S
MT 68 T
632 168 17
632 168 18
632 168 31
632 168 52
632 168 61
632 168 84
632 168 96**CHRYSLER DODGE**
DESOTO
FARGO
FIAT TRAKTÖR /
TRACTOR
FORD CARGO
GENOTO
BEDFORD
JOHN DEERE
LOMBARDINI
M. FERGUSON**JASX 98-99 K CU**M648 C153 72
M648 C154 72

JAS 98/K CU

JAS 99/K CU

2-JAS 98/K CU
2-JAS 99/K CUGerilim / Voltage
(Volt)**12**Ölçü / Dimension
(mm)**6,8x18x18**

M002T54271	M002T64371	M2T56471	M2T67873
M002T54371	M002T64871	M2T56472	M2T67881
M002T54372	M002T65271	M2T56475	M2T67882
M002T54471	M002T65272	M2T56871	M2T67883
M002T54571	M002T65275	M2T56971	M2T67981
M002T54572	M002T65671	M2T57271	M2T69081
M002T54771	M002T66871	M2T57273	M2T69171
M002T54871	M002T66872	M2T57371	M2T69381
M002T54881	M002T66873	M2T57671	M2T74171
M002T54882	M002T67871	M2T57671A	M2T74371
M002T55871	M002T67872	M2T57672	M2T90071
M002T56171	M002T67873	M2T57673B	M2T92071A
M002T56181	M002T67881	M2T57673C	M2T92172A
M002T56182	M002T67882	M2T57771	M2T92271A
M002T56185	M002T67883	M2T57773	M2V57673
M002T56272	M002T67884	M2T57871	M3T64172
M002T56471	M002T67981	M2T57881	M8T87171
M002T56472	M002T69081	M2T60172	MD050205
M002T56475	M002T69171	M2T60185	MD061154
M002T56871	M002T69381	M2T60271	MD069166
M002T57271	M002T74171	M2T60671	MD070934
M002T57273	M002T80582	M2T61071	MD140190
M002T57371	M002T90071	M2T61072	MD156986
M002T57671	M002T92071A	M2T61171	MD156987
M002T57671A	M002T92172A	M2T61271	MD156989
M002T57672	M002V57673	M2T61371	MD162975
M002T57673C	M2T54271	M2T61471	MD164975
M002T57771	M2T54272	M2T61771	MD164976
M002T57773	M2T54371	M2T62271	MD164977
M002T57871	M2T54372	M2T62771	MD164978
M002T57881	M2T54471	M2T62871	MD177596
M002T61071	M2T54571	M2T62971	MD191433
M002T61072	M2T54572	M2T63071	MD191434
M002T61171	M2T54671	M2T63171	MD191435
M002T61271	M2T54771	M2T63271	MD191436
M002T61771	M2T54871	M2T63371	MD191437
M002T62271	M2T54881	M2T64271	ME001565
M002T62771	M2T54882	M2T64371	ME007655
M002T62871	M2T55571	M2T64372	ME017035
M002T62971	M2T55871	M2T64871	ME017036
M002T63071	M2T56171	M2T65275	ME017056
M002T63171	M2T56181	M2T65671	ME017061
M002T63271	M2T56182	M2T66871	ME017085
M002T64271	M2T56185	M2T66872	ME017089
	M2T56271	M2T67871	ME017646
	M2T56272	M2T67872	ME200206

HYSTER FORKLIFT	1985 ->
HYUNDAI	STAREX 2.5 D 1997 - 2005 H100 2.5D 1993 - 2002 BONGO K2500 2.5 TCI 2003 >
KIA	PREGIO 2.5 TCI 2002 - 2005 CANTER 35 2.5D 1986 - 1996 PAJERO 2.5 TD 1990 - 2000 L200 2.5 TD 1992 - 1996 L300 2.5D 1986 - 2000
MITSUBISHI	

Takım Sipariş Kodu / Set Order Code
**Özellikler
Properties**
Motor Numarası / Unit No.
Araç Modeli/Vehicle Model
JASX 69-70 CU
**M648 C121 70
M648 C137 70**

**2-JAS 69
2-JAS 70**
**Gerilim / Voltage
(Volt)**
12
**Ölçü / Dimension
(mm)**
6,8x11,8x17,2

M2T 20181	M3T 30082	M3T 38882C
M2T 20181D	M3T 30088	M3T 38885
M2T 30385	M3T 30281	M3T 38981
M2T 30481	M3T 30282	M3T 39385
M2T 32281	M3T 30285	M3T 39781
M2T 32782D	M3T 30286	M3T 41081
M2T 37081	M3T 30381	M3T 41083
M2T 41181	M3T 30382	M3T 41481
M2T 41182	M3T 32591	M3T 41881
M2T 42381	M3T 32593	M3T 42681
M2T 42481	M3T 32681	M3T 48181
M2T 42781	M3T 32782	M3T 49381
M2T 42981	M3T 32782D	M3T 49585
M2T 43081	M3T 32985	M3T 49781
M2T 44081	M3T 32986	JMTSX 100
M2T 48081	M3T 32988	0222-24-753
M2T 49281	M3T 33081	N202-24-750
M2T 49282	M3T 33481	MD602468
M3T 21281D	M3T 33585	23378-N5911
M3T 21281	M3T 33586	23380-U0110
M3T 21282D	M3T 33586A	JMTSX 100
M3T 22681	M3T 33586D	31132-72031
M3T 27686D	M3T 33587	0222-24-750
M3T 27686H	M3T 33981	0426-24-753
M3T 27686N	M3T 33981H	MD607420
M3T 30081	M3T 34081	23380-B5010
M3T 34082	M3T 38882	23380-E3010
M3T 36081	M3T 38882A	31132-72030
M3T 38881B	M3T 38882B	

**MITSUBISHI
CITROEN
MAZDA
NISSAN
PEUGEOT
SUZUKI**

Takım Sipariş Kodu / Set Order Code

Özellikler
Properties

Motor Numarası / Unit No.

Araç Modeli/Vehicle Model

PSX 148-149 CU594 060
594 070

PS 148

PS 149

VA 1480
VA 14911-PS 148
1-PS 149Gerilim / Voltage
(Volt)

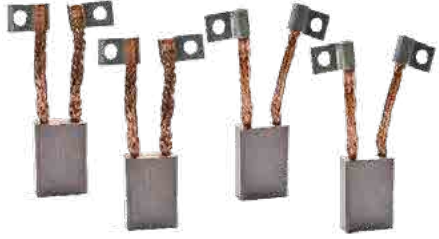
12

Ölçü / Dimension
(mm)

4,5/9x11x18

182551
183199
184413
185874
182505
183212
184471
185310
184470PEUGEOT KARSAN
BOXER
PARTNER
RENAULT MEGANE
CABRIOLET
SCENIC
COUPE**BSX 33 CU**

2 007 014 020



4-BS 33

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

9x20x28,5

0 001 400 016
0 001 401 051

RENAULT

JSX 35-37 CU83 221 241
83 220 991
83 223 991

YENİ / NEW



JSX 37 CU

JSX 35 CU

2-JS 35 CU

1-JS 37 CU

Gerilim / Voltage
(Volt)

12

Ölçü / Dimension
(mm)

7x13x17,5

E80E-1
E80E-0
E80E-2
E80E-3
E80E-4
E80E-5
E80E-6
E80E-7
E80E-8
E80E-9
E80E-10
E80E-11
E80E-12
631 230 31
631 230 32
631 230 33
631 230 34

NISSAN PRIMERA 1.6

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