



NEW

# ARMATURES





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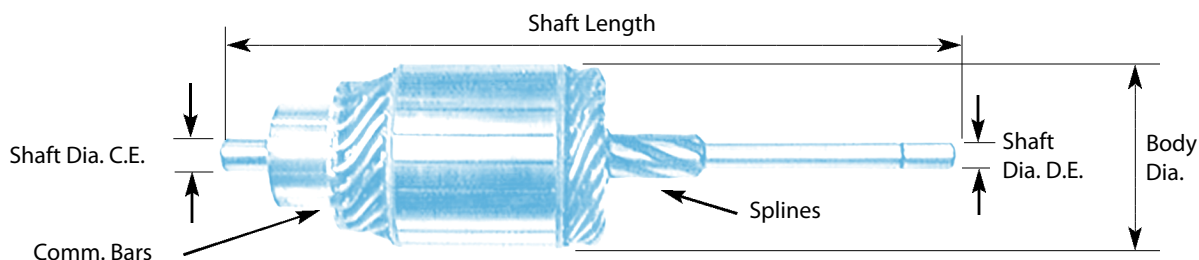
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## Abbreviations

|       |                   |      |                                 |
|-------|-------------------|------|---------------------------------|
| C.E.  | Commutator End    | mm   | Millimeters                     |
| CCW   | Counter Clockwise | OSGR | Off Set Gear Reduction          |
| Comm. | Commutator        | PLGR | Planetary Gear Reduction        |
| CW    | Clockwise         | PMDD | Permanent Magnet Direct Drive   |
| D/D   | Direct Drive      | PMGR | Permanent Magnet Gear Reduction |
| D.E.  | Drive End         | V    | Volt                            |
| Dia.  | Diameter          | w/   | with                            |
| kW    | Kilowatt          |      |                                 |

## Dimensional Configurations



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# PART NUMBERING SYSTEM



61 01 - 41 1 1 0

## First and second digits

Product Code

61 = Armatures

## Third and fourth digits

OEM Code

- 01 = Delco
- 02 = Ford
- 03 = Chrysler
- 05 = Prestolite
- 07 = Leece Neville
- 40 = Hitachi
- 43 = Mitsubishi
- 44 = Nikko
- 46 = Denso
- 47 = Sawafuji
- 60 = Bosch
- 65 = Lucas
- 66 = Marelli
- 70 = Valeo

## Fifth & sixth digits

Type or Series Code

## Seventh digit

Voltage Code

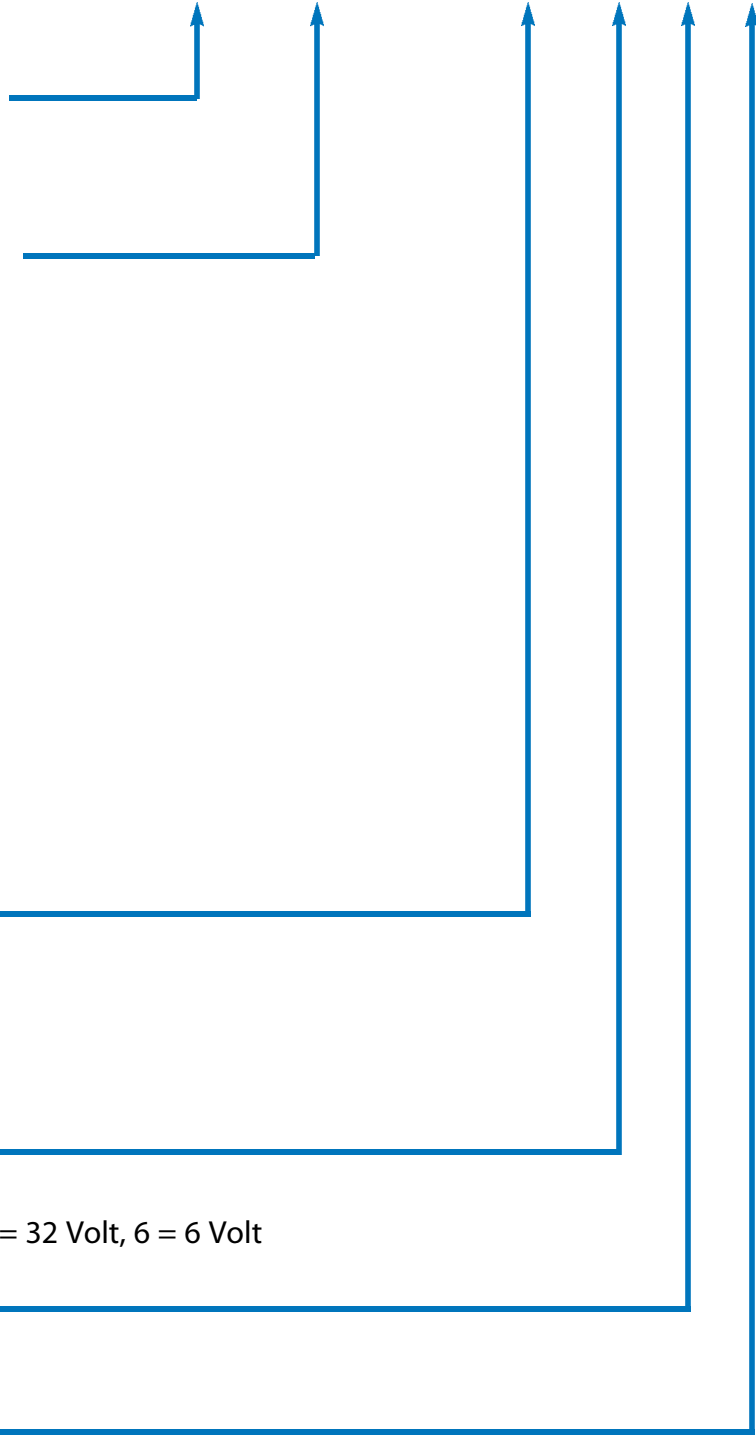
1 = 12 Volt, 2 = 24 Volt, 3 = 32 Volt, 6 = 6 Volt

## Eighth digit

Sequential Number Code

## Ninth digit

Optional Feature Code





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| SZ-0112                | 6146-3011            | 12-411-289-488    | 6160-2111            | 2 004 004 007     | 6160-6711            |
| SZ-0113                | 6146-1211            | 12-411-354-574    | 6160-3112            | 2 004 004 033     | 6160-6721            |
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| 2 004 006 101     | 6160-5121            | 131174            | 6101-1019            | 133368            | 6165-2711            |
| 2 004 014 060     | 6160-6711            | 131309            | 6160-6721            | 133391            | 6144-5521            |
| 2 004 014 062     | 6160-6712            | 131311            | 6160-4123            | 133486            | 6160-4111            |
| 2 004 014 065     | 6160-6911            | 131354            | 6101-3710            | 133515            | 6160-5911            |
| 2 004 014 067     | 6160-6912            | 131359            | 6101-3720            | 133850            | 6101-2810            |
| 2 004 014 075     | 6160-6721            | 131365            | 6101-4210            | 134071            | 6143-1211            |
| 2 004 014 076     | 6160-6721            | 131379            | 6160-6223            | 134369            | 6146-2011            |
| 2 004 014 077     | 6160-6721            | 131400            | 6101-1012            | 134370            | 6146-1410            |
| 2 004 014 951     | 6160-6214            | 131402            | 6101-0512            | 134513            | 6170-1011            |
| 2 004 014 952     | 6160-6213            | 131403            | 6101-2713            | 134514            | 6160-1012            |
| 2 004 014 953     | 6160-6215            | 131404            | 6103-1111            | 134971            | 6144-2211            |
| 2 004 014 955     | 6160-6216            | 131405            | 6103-1311            | 135089            | 6101-2821            |
| 2 004 014 960     | 6160-6711            | 131627            | 6101-2711            | 135351            | 6160-6911            |
| 2 004 014 962     | 6160-6712            | 131658            | 6101-2715            | 135649            | 6140-1011            |
| 2 004 014 965     | 6160-6911            | 131659            | 6101-1016            | 135667            | 6144-7521            |
| 2 004 014 967     | 6160-6912            | 131659            | 6101-1016            | 135786            | 6101-1010            |
| 2 004 014 972     | 6160-6223            | 131661            | 6101-3521            | 135832            | 6143-1411            |
| 2 004 014 973     | 6160-6225            | 131663            | 6160-3112            | 135853            | 6146-4011            |
| 2 004 014 974     | 6160-6226            | 131666            | 6160-5121            | 136016            | 6160-6214            |
| 2 004 014 975     | 6160-6721            | 131850            | 6101-4220            | 136105            | 6160-6214            |
| 2 007 010 058     | 6160-4211            | 132018            | 6140-0012            | 136189            | 6140-1121            |
| 2 007 010 059     | 6160-4221            | 132031            | 6160-2111            | 136194            | 6143-6021            |
| 2 007 010 061     | 6160-4221            | 132158            | 6160-6213            | 136196            | 6143-2521            |
| 2 007 010 065     | 6160-4211            | 132332            | 6160-6511            | 136634            | 6102-0910            |
| 2 007 010 067     | 6160-4211            | 132457            | 6140-2111            | 136853            | 6146-4011            |
| 9 003 334 029     | 6160-2111            | 132484            | 6143-2012            | 136862            | 6146-0612            |
|                   |                      | 132486            | 6143-2011            | 136896            | 6146-1411            |
|                   |                      | 132487            | 6143-2211            | 137069            | 6160-1013            |
|                   |                      | 132534            | 6144-5520            | 137092            | 6140-2511            |
|                   |                      | 132539            | 6144-2821            | 137233            | 6160-6912            |
| <b>CARGO</b>      |                      |                   |                      |                   |                      |
| 130060            | 6160-3111            | 132553            | 6146-2521            | 137304            | 6140-1412            |
| 130115            | 6160-6213            | 132683            | 6101-0513            | 137485            | 6101-1013            |
| 130116            | 6160-6214            | 132684            | 6101-0514            | 137948            | 6140-1413            |
| 130117            | 6160-6215            | 132685            | 6101-0510            | 137953            | 6146-1211            |
| 130119            | 6160-6021            | 132686            | 6101-1017            | 138675            | 6146-3021            |

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|--------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| <b>CARGO</b>       |                      | <b>CHRYSLER</b>   |                      | <b>CPC</b>        |                      |
| 138964             | 6147-6021            | 3755665           | 6103-1111            | SALU-5440         | 6165-2711            |
| 139352             | 6143-2811            | 3755761           | 6103-1311            | SAMI-5550         | 6143-2511            |
| 139701             | 6146-3011            | 3837325           | 6103-1111            | SAMM-5609         | 6166-3511            |
|                    |                      | 3837334           | 6103-1311            | SAND-5620         | 6146-4011            |
|                    |                      | 5227125           | 6160-1011            |                   |                      |
|                    |                      | 5233947           | 6146-1410            |                   |                      |
| <b>CASE</b>        |                      | <b>CITROEN</b>    |                      | <b>DAF</b>        |                      |
| A 47 242           | 6146-2511            | 5821 95           | 6160-6213            | 111547            | 6160-6021            |
| F 94 1510          | 6160-6721            | 5821 C9           | 6160-6223            | 244586            | 6160-4121            |
|                    |                      | ND 533 11 B       | 6160-5911            | 246156            | 6160-4121            |
|                    |                      |                   |                      | 249227            | 6160-6021            |
|                    |                      |                   |                      | 607018            | 6160-6422            |
| <b>CATERPILLAR</b> |                      | <b>CLAAS</b>      |                      | <b>DAIHATSU</b>   |                      |
| 67751              | 6101-3010            | 132 612 0         | 6160-4111            | 609047            | 6160-5911            |
| 87849              | 6101-1018            |                   |                      | 609924            | 6160-4122            |
| 647595             | 6101-2715            |                   |                      | 691916            | 6160-6721            |
| 656572             | 6101-1016            |                   |                      | 693048            | 6160-5121            |
| 656572             | 6101-1016            |                   |                      | 697876            | 6160-4122            |
|                    |                      | <b>COSMO</b>      |                      |                   |                      |
| 665389             | 6101-3510            | 50-0508           | 6101-0510            | 1296187           | 6160-6421            |
| 665389             | 6101-3510            | 50-1001           | 6101-1012            |                   |                      |
| 1F-3466            | 6101-1061            | 50-3701           | 6101-3710            |                   |                      |
| 2Y-2384            | 6160-4121            | 50-3702           | 6101-3720            |                   |                      |
| 32-9678            | 6101-2711            | 50-4001           | 6101-4010            |                   |                      |
| 3H-1946            | 6101-1061            | 50-4002           | 6101-4020            | 28160-87704-000   | 6146-1011            |
| 3T-0867            | 6160-4221            | 50-4201           | 6101-4210            | 28160-87706-000   | 6146-1410            |
| 3T-5425            | 6101-5021            | 50-4202           | 6101-4220            |                   |                      |
| 4M-1868            | 6101-4020            |                   |                      | <b>DELCO</b>      |                      |
| 4N-6942            | 6146-4011            |                   |                      | 800306            | 6101-0013            |
|                    |                      | <b>CPC</b>        |                      | 816163            | 6101-1061            |
| 5L-6424            | 6101-5030            | SABO-5010         | 6160-1112            | 817221            | 6101-0060            |
| 5L-8877            | 6101-3521            | SABO-5013         | 6160-1011            | 817807            | 6101-0060            |
| 5M-2203            | 6101-2719            | SABO-5019         | 6160-1112            | 818002            | 6101-1061            |
| 6T-9259            | 6146-1410            | SABO-5022         | 6160-1111            |                   |                      |
| 7L-6587            | 6101-4010            | SABO-5032         | 6160-3112            | 830800            | 6101-2712            |
|                    |                      |                   |                      | 1813417           | 6101-0011            |
| 7M-0323            | 6101-5021            | SABO-5042         | 6160-6422            | 1838448           | 6101-0011            |
| 7N-8764            | 6101-1010            | SABO-5068         | 6160-3112            | 1841027           | 6101-0060            |
| 7N-9548            | 6101-1010            | SABO-5072         | 6160-3111            | 1846614           | 6101-2711            |
| 9B-8890            | 6101-1062            | SABO-5080         | 6160-3112            |                   |                      |
| 9B-9048            | 6101-1061            | SABO-5092         | 6160-5121            |                   |                      |
|                    |                      |                   |                      | 1851550           | 6101-1010            |
| 9F-9296            | 6101-1062            | SABO-5577         | 6160-6214            | 1851961           | 6101-3512            |
|                    |                      | SABO-5652         | 6160-6213            | 1852860           | 6101-1018            |
|                    |                      | SABO-5654         | 6160-5911            | 1852918           | 6101-2719            |
|                    |                      | SABO-5657         | 6160-6021            | 1852981           | 6101-3513            |
|                    |                      | SABO-5658         | 6160-6214            |                   |                      |
| <b>CHRYSLER</b>    |                      |                   |                      |                   |                      |
| 2095094            | 6103-1111            | SABO-5659         | 6160-6711            | 1853593           | 6101-0011            |
| 2098496            | 6103-1111            | SABO-5660         | 6160-6721            | 1854856           | 6101-0011            |
| 2642072            | 6103-1111            | SABO-5661         | 6160-4121            | 1866789           | 6101-0011            |
| 3656552            | 6103-1111            | SALU-5383         | 6165-5012            | 1871662           | 6101-1061            |
| 3755313            | 6103-1111            | SALU-5439         | 6165-5012            | 1871664           | 6101-1061            |



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| <b>DELCO</b>      |                      | <b>DELCO</b>      |                      | <b>DELCO</b>       |                      |
| 1871826           | 6101-0011            | 1949243           | 6101-1013            | 10470773           | 6101-1012            |
| 1872450           | 6101-1061            | 1950307           | 6101-1016            | 10471537           | 6101-0511            |
| 1872505           | 6101-1062            | 1950310           | 6101-1016            | 10472559           | 6101-4121            |
| 1873354           | 6101-1062            | 1950417           | 6101-2715            | 10473852           | 6101-4111            |
| 1876366           | 6101-2711            | 1951251           | 6101-1062            | 10475588           | 6101-1711            |
| 1878077           | 6101-1061            | 1951254           | 6101-5021            | 10475990           | 6101-1412            |
| 1891404           | 6101-1010            | 1954448           | 6101-1019            | 10487126           | 6101-1412            |
| 1891916           | 6101-2711            | 1954479           | 6101-1011            | 10492437           | 6143-1711            |
| 1893269           | 6101-0512            | 1956211           | 6101-1014            | 10495881           | 6101-0511            |
| 1893333           | 6101-0513            | 1956903           | 6101-3012            | 10495931           | 6101-0510            |
| 1893449           | 6101-2713            | 1956918           | 6101-2715            | 10495958           | 6101-0514            |
| 1907785           | 6101-2719            | 1956941           | 6101-1011            | 10497046           | 6101-0510            |
| 1910938           | 6101-1061            | 1957093           | 6101-0011            | 10498530           | 6101-1410            |
| 1913560           | 6101-0061            | 1958949           | 6101-1019            | 10498586           | 6101-1410            |
| 1913936           | 6101-1062            | 1959458           | 6101-3516            | 10498616           | 6101-1411            |
| 1914228           | 6101-1061            | 1960866           | 6101-2711            | 10498863           | 6101-1012            |
| 1917164           | 6101-0011            | 1961226           | 6101-1061            | 10499097           | 6101-0510            |
| 1917785           | 6101-2719            | 1961320           | 6101-4010            | 10499230           | 6101-0511            |
| 1917864           | 6101-0011            | 1961703           | 6101-2712            | 10499601           | 6101-0514            |
| 1921351           | 6101-0011            | 1961754           | 6101-3510            | 94840323           | 6146-1410            |
| 1925348           | 6101-0011            | 1961960           | 6101-1062            |                    |                      |
| 1928952           | 6101-0060            | 1962056           | 6101-0012            |                    |                      |
| 1929404           | 6101-1010            | 1965724           | 6101-1012            |                    |                      |
| 1929558           | 6101-0011            | 1965866           | 6101-2711            |                    |                      |
| 1930812           | 6101-2715            | 1967042           | 6101-3010            | <b>DELCO SALES</b> |                      |
| 1932279           | 6101-1011            | 1967044           | 6101-3521            | D3101              | 6101-0011            |
| 1932746           | 6101-0012            | 1967045           | 6101-3510            | D3105              | 6101-0060            |
| 1932872           | 6101-3010            | 1967046           | 6101-3511            | D4100              | 6101-1061            |
| 1935259           | 6101-3010            | 1967252           | 6101-0060            | D4108              | 6101-1018            |
| 1935851           | 6101-1018            | 1967295           | 6101-3521            | D4109              | 6101-1019            |
| 1935994           | 6101-0060            | 1967349           | 6101-5030            | D4111              | 6101-1012            |
| 1938178           | 6101-1019            | 1970548           | 6101-1012            | D4112              | 6101-1015            |
| 1939904           | 6101-0013            | 1974786           | 6101-2713            | D4118              | 6101-1011            |
| 1940624           | 6101-1012            | 1975073           | 6101-1010            | D4120              | 6101-1011            |
| 1941888           | 6101-1015            | 1977818           | 6101-5011            | D4121              | 6101-1012            |
| 1942244           | 6101-3010            | 1984504           | 6101-0514            | D4122              | 6101-3513            |
| 1942881           | 6101-3012            | 1985138           | 6101-0510            | D4123              | 6101-3010            |
| 1945500           | 6101-4020            | 1985249           | 6101-3710            | D4124              | 6101-1012            |
| 1945688           | 6101-1011            | 1986374           | 6101-3719            | D4126              | 6101-0512            |
| 1945840           | 6101-5020            | 1986471           | 6101-2722            | D4127              | 6101-0513            |
| 1945913           | 6101-5030            | 1987989           | 6101-4210            | D4128              | 6101-2713            |
| 1946391           | 6101-3510            | 1988322           | 6101-3720            | D4134              | 6101-0514            |
| 1946942           | 6101-3511            | 1988435           | 6101-4220            | D4135              | 6101-0510            |
| 1947353           | 6101-1017            | 1989849           | 6101-3721            | D4136              | 6101-0510            |
| 1948464           | 6101-3521            | 10456407          | 6101-0514            | D4139              | 6101-0514            |
| 1948508           | 6101-4020            | 10456466          | 6101-2810            | D4141              | 6101-0511            |
| 1948600           | 6101-3521            | 10457117          | 6101-2821            | D4142              | 6101-0510            |
| 1948999           | 6101-3510            | 10467325          | 6101-0510            | D4143              | 6101-1012            |
| 1949112           | 6101-3521            | 10467582          | 6101-0511            | D4146              | 6101-0511            |
| 1949190           | 6101-2715            | 10467708          | 6101-0510            | D4147              | 6101-0510            |

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|----------------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| <b>DELCO SALES</b>         |                      | <b>DIXIE</b>      |                      | <b>DIXIE</b>      |                      |
| D4148                      | 6101-0510            | 4-214             | 6102-4010            | 4-1081            | 6101-3510            |
| D4149                      | 6101-0514            | 4-217             | 6102-0110            | 4-1082            | 6101-2715            |
| D4150                      | 6101-0511            | 4-220             | 6102-4011            | 4-1082A           | 6101-2711            |
| D4151                      | 6101-1410            | 4-221             | 6102-4012            | 4-1083            | 6101-1013            |
| D4152                      | 6101-1410            | 4-222             | 6102-0711            | 4-1087            | 6101-4020            |
| D4153                      | 6101-1411            | 4-223             | 6102-0910            | 4-1090            | 6101-1011            |
| D4156                      | 6101-0514            | 4-301             | 6103-1111            | 4-1093            | 6101-3511            |
| D4158                      | 6101-0510            | 4-302             | 6103-1311            | 4-1094            | 6101-3521            |
| D4159                      | 6101-1012            | 4-421             | 6165-2711            | 4-1100            | 6101-1017            |
| D4160                      | 6101-0511            | 4-424             | 6165-5012            | 4-1101            | 6101-1014            |
| D4161                      | 6101-2810            | 4-429             | 6165-4511            | 4-1104            | 6101-4010            |
|                            |                      | 4-436             | 6165-2711            | 4-1105            | 6101-3010            |
|                            |                      | 4-502             | 6105-0611            | 4-1106            | 6101-5020            |
|                            |                      | 4-551             | 6105-0712            | 4-1107            | 6101-2712            |
|                            |                      | 4-608             | 6160-3112            | 4-1109            | 6101-3012            |
| <b>DENSO (NIPPONDENSO)</b> |                      |                   |                      |                   |                      |
| 028200-126_                | 6146-4011            | 4-636             | 6160-6021            | 4-1110            | 6101-3516            |
| 028200-153_                | 6146-1011            | 4-637             | 6160-6213            | 4-1113            | 6101-3510            |
| 028200-159_                | 6146-2521            | 4-640             | 6160-5911            | 4-1117            | 6101-5030            |
| 028200-178_                | 6146-2511            | 4-654             | 6160-3111            | 4-1118            | 6101-5021            |
| 028200-181_                | 6146-4021            | 4-655             | 6160-3112            | 4-1120            | 6101-3512            |
| 028200-190_                | 6146-2511            | 4-656             | 6160-6214            | 4-1122            | 6101-2711            |
| 028200-214_                | 6146-2011            | 4-668             | 6160-6511            | 4-1125            | 6101-1016            |
| 028200-223_                | 6146-2521            | 4-669             | 6160-6711            | 4-1126            | 6101-1011            |
| 028200-232_                | 6146-1410            | 4-672             | 6160-6422            | 4-1128            | 6101-1062            |
| 028200-280_                | 6146-3011            | 4-673             | 6160-4121            | 4-1132            | 6101-1012            |
| 028200-505_                | 6146-1021            | 4-675             | 6160-6214            | 4-1138            | 6101-3513            |
| 028200-521_                | 6146-0612            | 4-681             | 6160-1011            | 4-1139            | 6101-1013            |
| 028200-525_                | 6146-3021            | 4-682             | 6160-6721            | 4-1140            | 6101-0512            |
| 028200-537_                | 6146-1410            | 4-683             | 6166-3511            | 4-1141            | 6101-0513            |
| 028200-604_                | 6146-4012            | 4-685             | 6160-6223            | 4-1145            | 6101-2713            |
| 028200-620_                | 6146-2511            | 4-687             | 6160-4122            | 4-1149            | 6101-1061            |
| 028200-622_                | 6146-2511            | 4-688             | 6160-6215            | 4-1178            | 6101-5011            |
| 028200-623_                | 6146-2511            | 4-689             | 6160-5121            | 4-1190            | 6101-0514            |
| 028200-625_                | 6146-1411            | 4-693             | 6160-4221            | 4-1191            | 6101-0510            |
| 028200-626_                | 6146-1211            | 4-1000            | 6101-1061            | 4-1205            | 6101-3710            |
| 028200-630_                | 6146-4022            | 4-1004            | 6101-3011            | 4-1206            | 6101-3719            |
| 028200-687_                | 6146-2012            | 4-1008            | 6101-1061            | 4-1207            | 6101-3720            |
|                            |                      | 4-1016            | 6101-1062            | 4-1208            | 6101-4210            |
|                            |                      | 4-1025            | 6101-2719            | 4-1209            | 6101-4220            |
|                            |                      | 4-1044            | 6101-1010            | 4-1211            | 6101-1410            |
| <b>DIXIE</b>               |                      |                   |                      |                   |                      |
| 3-1002                     | 6101-0060            | 4-1048            | 6101-3011            | 4-1212            | 6101-2810            |
| 3-1004                     | 6101-0060            | 4-1052            | 6101-1011            | 4-1213            | 6101-0510            |
| 3-1028                     | 6101-0061            | 4-1053            | 6101-3010            | 4-1214            | 6101-1411            |
| 3-1036                     | 6101-0011            | 4-1061            | 6101-1018            | 4-1215            | 6101-2821            |
| 3-1044                     | 6101-0011            | 4-1066            | 6101-1019            | 4-1218            | 6101-1711            |
| 3-1051                     | 6101-0060            | 4-1067            | 6101-1015            | 4-1219            | 6101-4111            |
| 3-1059                     | 6101-0012            | 4-1069            | 6101-1011            | 4-1220            | 6101-4121            |
| 3-1078                     | 6101-0013            | 4-1074            | 6101-1012            | 4-1221            | 6101-2722            |
| 3-1117                     | 6101-0060            | 4-1078            | 6101-4020            | 4-8017            | 6146-4011            |
| 4-207S                     | 6102-4510            | 4-1080            | 6101-3510            | 4-8020            | 6143-3511            |



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| <b>DIXIE</b>      |                      | <b>DUBOIS</b>     |                      | <b>EFEL</b>       |                      |
| 4-8021            | 6146-2511            | 951-261           | 6101-1412            | 07060             | 6160-4121            |
| 4-8022            | 6146-2521            | 951-280           | 6101-2810            | 08430             | 6166-3511            |
| 4-8423            | 6143-0010            | 951-281           | 6101-2821            | 08445             | 6160-5911            |
| 404-1087          | 6101-4020            | 951-512           | 6101-4010            | 09190             | 6160-6021            |
| 404-1093          | 6101-3511            | 951-524           | 6101-4020            | 10470             | 6160-6213            |
| 404-1094          | 6101-3521            | 951-530           | 6101-3710            | 10643             | 6160-6214            |
| 404-1104          | 6101-4010            | 951-531           | 6101-3720            | 11590             | 6160-6721            |
| 404-1106          | 6101-5020            | 951-535           | 6101-1410            | 11635             | 6160-6711            |
| 404-1110          | 6101-3516            | 951-542           | 6101-4210            | 12300             | 6160-4122            |
| 404-1117          | 6101-5030            | 951-543           | 6101-4220            | 12305             | 6160-6223            |
| 404-1118          | 6101-5021            | 951-550           | 6101-5021            | 13515             | 6160-6214            |
| 404-1205          | 6101-3710            | 951-551           | 6101-5020            | 14690             | 6160-6213            |
| 404-1207          | 6101-3720            | 952-118           | 6102-4012            | 22501             | 6160-4122            |
| 404-1208          | 6101-4210            | 952-560           | 6102-0910            | 22502             | 6160-4123            |
| 404-1209          | 6101-4220            | 958-050           | 6165-5012            | 22503             | 6160-4121            |
| 414-8195          | 6146-1410            |                   |                      | 22504             | 6160-4111            |
| 425-8254          | 6146-2511            |                   |                      |                   |                      |
| 430-8252          | 6146-3011            |                   |                      |                   |                      |
| 440-1083          | 6101-4020            |                   |                      |                   |                      |
| 440-1107          | 6101-4010            |                   |                      |                   |                      |
| 442-1500          | 6101-4210            | 4212SA            | 6101-4010            | 4790 719          | 6160-4121            |
| 442-1502          | 6101-4220            | 4224SA            | 6101-4020            | 4797 256          | 6160-5121            |
| 455-8283          | 6146-3021            | 4256SAF           | 6160-1011            |                   |                      |
| 550-1188          | 6101-5021            | 4258SAF           | 6146-2511            |                   |                      |
| 550-1207          | 6101-5021            | 4271SAF           | 6165-5012            |                   |                      |
| 550-1252          | 6101-5020            | 78100SF           | 6102-0910            | 2985056           | 6160-6021            |
|                   |                      | 78120SF           | 6102-4012            | 7078087           | 6160-1012            |
|                   |                      | 78130SD           | 6101-1012            | 8121267           | 6160-4123            |
|                   |                      | 78150SD           | 6101-4010            | 8122131           | 6160-6511            |
|                   |                      | 78180SD           | 6101-4020            | 8122158           | 6160-6721            |
| <b>DRESSER</b>    |                      |                   |                      |                   |                      |
| 3079 548 R1       | 6160-6215            | 78190SD           | 6101-3010            | 9817917           | 6160-6711            |
|                   |                      | 78200SD           | 6101-3510            | 9817917           | 6160-6711            |
|                   |                      | 78210SD           | 6101-3710            | 9918349           | 6160-5911            |
|                   |                      | 78220SD           | 6101-3720            | 9920325           | 6160-6021            |
|                   |                      | 78230SD           | 6101-4210            | 9920350           | 6160-4121            |
| <b>DUBOIS</b>     |                      |                   |                      |                   |                      |
| 9512              | 6101-4010            | 78240SD           | 6101-4220            | 9925364           | 6160-5121            |
| 9524              | 6101-4020            | 78250SD           | 6101-5020            | 9926106           | 6160-5911            |
| 9535              | 6101-1410            | 78260SD           | 6101-5021            | 9926497           | 6160-6021            |
| 9542              | 6101-4210            | 78270SB           | 6160-1011            | 9927931           | 6160-6223            |
| 9543              | 6101-4220            | 78280SN           | 6146-2511            | 9932919           | 6160-3111            |
| 9550              | 6101-5021            | 78300SL           | 6165-5012            | 9933236           | 6166-3511            |
| 9551              | 6101-5020            | 78310SD           | 6101-1410            | 9935822           | 6160-3111            |
| 9560              | 6102-0910            | 78320SD           | 6101-2810            | 9936660           | 6160-3112            |
| 951-052           | 6101-0513            | 78330SD           | 6101-2821            | 9936666           | 6160-3112            |
| 951-053           | 6101-0512            | 78360SD           | 6101-2713            | 9936724           | 6160-6213            |
| 951-054           | 6101-0511            | 78420SF           | 6143-2211            | 9936724           | 6160-6213            |
| 951-055           | 6101-0514            | 78430SNX          | 6146-2011            | 9939197           | 6160-2111            |
| 951-056           | 6101-0510            | 78440SL           | 6165-4511            | 9939778           | 6160-1011            |
| 951-100           | 6101-1012            |                   |                      | 9940742           | 6160-1111            |
| 951-260           | 6101-1711            |                   |                      | 9940925           | 6160-1112            |

# CROSS REFERENCE-ARMATURES



| Original Numbers  | Signet Numbers | Reference Numbers | Signet Sales Numbers | Reference Numbers | Signet Sales Numbers |
|-------------------|----------------|-------------------|----------------------|-------------------|----------------------|
| <b>FIAT</b>       |                | <b>FORD</b>       |                      | <b>FORD</b>       |                      |
| 9945955           | 6160-3111      | 1546071           | 6160-5911            | E4EF-11005-AA     | 6102-0711            |
| 9945961           | 6160-1112      | 1569023           | 6160-3111            | E4FZ-11005-A      | 6102-0711            |
| 9945962           | 6160-1012      | 1596351           | 6160-6711            | E5PF-11005-AA     | 6143-2511            |
| 9946636           | 6160-6213      | 5211005           | 6102-0612            | E5PZ-11005-A      | 6143-2511            |
| 9947836           | 6160-1012      | 6060437           | 6160-6213            | E5TZ-11005-A      | 6143-2211            |
| 9948705           | 6160-1012      | 6105238           | 6160-6721            | E9OF-11005-AA     | 6102-0910            |
| 9950023           | 6160-3111      | 6122068           | 6160-6213            | E9OZ-11005-A      | 6102-0910            |
| 9950075           | 6160-1011      | 6147937           | 6160-1112            | F12Z-11005-A      | 6143-1411            |
| 9950125           | 6160-2111      | 6158980           | 6160-2111            | F2TU-11005-DA     | 6102-0910            |
| 9950686           | 6160-1012      | 733F-11005-AA     | 6160-5911            | F2TZ-11005-A      | 6102-0910            |
| 9950838           | 6160-1012      | 76EB-11005-AA     | 6160-3111            | F4TZ-11005-A      | 6143-2811            |
| 9956670           | 6160-6213      | 78GB-11005-BA     | 6160-6213            | F4XY-11005-A      | 6143-1711            |
| 9956670           | 6160-6213      | 78GB-11005-BA     | 6160-6213            | F81U-11005-A      | 6102-0911            |
| 9959564           | 6160-6711      | 82DB-11005-AA     | 6160-6711            | F81U-11005-AA     | 6102-0911            |
| 9959564           | 6160-6711      | 82DB-11005-AA     | 6160-6711            | FAC-11005-B       | 6102-0612            |
| 9959574           | 6160-6711      | 82DB-11005-BA     | 6160-6721            | FAR-11005-A       | 6102-0612            |
| 9959574           | 6160-6711      | 82DB-11005-BA     | 6160-6721            | FAS-11005-A       | 6102-0612            |
| 9959807           | 6160-6721      | 83BB-11005-BA     | 6160-6213            | XL1U-11005-A      | 6102-0911            |
| 9959807           | 6160-6721      | 83BB-11005-BA     | 6160-6213            |                   |                      |
| 9983622           | 6160-6213      | 84AB-11005-AB     | 6160-1112            |                   |                      |
| 9983622           | 6160-6213      | 86GB-11005-AA     | 6160-2111            |                   |                      |
| 60737103          | 6160-6213      | B6A-11005-A       | 6102-0612            |                   |                      |
| 60751611          | 6160-2111      | C2AF-11005-A      | 6102-0613            |                   |                      |
| 60752005          | 6160-1011      | C2AF-11005-B      | 6102-0613            |                   |                      |
| 79026089          | 6160-6213      | C2AZ-11005        | 6102-0613            | <b>HENSCHEL</b>   |                      |
| 79026089          | 6160-6213      | C2AZ-11005-A      | 6102-0613            | 2920 12 173 3752  | 6160-6021            |
| 79033671          | 6160-6721      | C2AZ-11005-B      | 6102-0613            | 983 277           | 6160-4121            |
| 79033671          | 6160-6721      | C6VY-11005        | 6102-4510            | 984 160           | 6160-6021            |
| 79033954          | 6160-6711      | C6VY-11005-A      | 6102-4510            |                   |                      |
| 79033954          | 6160-6711      | C6VY-11005-B      | 6102-4510            |                   |                      |
| 79034661          | 6160-5911      | C7TZ-11005-B      | 6101-3510            |                   |                      |
| 79044566          | 6160-6223      | D0AZ-11005-A      | 6102-4510            |                   |                      |
| 79044566          | 6160-6223      | D0NN-11005-A      | 6165-5012            |                   |                      |
| 79052243          | 6160-4122      | D0OZ-11005-A      | 6102-4510            |                   |                      |
| 79058490          | 6160-4221      | D0TZ-11005-A      | 6102-4510            | <b>HINO</b>       |                      |
| 79850006          | 6160-4121      | D5AZ-11005-A      | 6102-4510            | 28160-1510_       | 6146-4012            |
| 82256321          | 6160-4121      | D6TZ-11005-A      | 6102-4510            | 28160-1560_       | 6147-6021            |
| 82317140          | 6160-3111      | D7AF-11005-A      | 6102-4510            |                   |                      |
| 99447080          | 6160-1111      | D7AZ-11005-A      | 6102-4510            |                   |                      |
|                   |                | E1EF-11005-AA     | 6102-4010            | <b>HITACHI</b>    |                      |
|                   |                | E1FZ-11005-A      | 6102-4010            | 2114-11100        | 6140-0011            |
|                   |                | E2BF-11005-AA     | 6102-4011            | 2114-21111        | 6140-1413            |
|                   |                | E2BZ-11005-A      | 6102-4011            | 2114-31109        | 6140-1411            |
|                   |                | E2EF-11005-AA     | 6102-4012            | 2114-61103        | 6140-1011            |
|                   |                | E2FZ-11005-A      | 6102-4012            | 2114-61104        | 6140-0010            |
|                   |                | E3EF-11005-AA     | 6102-4012            | 2114-71105        | 6140-1412            |
|                   |                | E3FZ-11005-A      | 6102-4012            | 2114-91001        | 6140-0013            |
|                   |                | E3PZ-11005-A      | 6101-2711            | 2120-4150         | 6140-1811            |
|                   |                | E4AF-11005-A      | 6102-4012            | 2120-6150         | 6140-0012            |
|                   |                | E4AF-11005-AA     | 6102-4012            | 2120-7100         | 6140-0012            |
| <b>FIAT-ALLIS</b> |                |                   |                      |                   |                      |
| D75206986         | 6160-4121      |                   |                      |                   |                      |



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| Reference Numbers | Signet Sales Numbers | Reference Numbers         | Signet Sales Numbers | Reference Numbers | Signet Sales Numbers |
|-------------------|----------------------|---------------------------|----------------------|-------------------|----------------------|
| <b>HITACHI</b>    |                      | <b>IAT</b>                |                      | <b>IPM</b>        |                      |
| 2130-11001        | 6140-2511            | 04406                     | 6165-4511            | 2A-3002           | 6101-5020            |
| 2130-61003        | 6140-2011            | 04414                     | 6165-2711            | 2A-3003           | 6101-5021            |
| 2130-71100        | 6140-2111            | 04417                     | 6165-2711            | 2A-3005           | 6101-4020            |
| 2130-91002        | 6140-2011            | 04501                     | 6144-5520            | 2A-3006           | 6101-4010            |
| 2210-31001        | 6140-1121            | 04504                     | 6143-2011            | 2A-3009           | 6101-3510            |
| 2250-21001        | 6140-2521            | 04507                     | 6143-2511            | 2A-3011           | 6101-3010            |
|                   |                      | 04509                     | 6143-2211            | 2A-3013           | 6101-3521            |
|                   |                      | 04510                     | 6143-1211            | 2A-3014           | 6101-3511            |
|                   |                      | 04511                     | 6146-4011            | 2A-3015           | 6101-1012            |
|                   |                      | 04512                     | 6146-2511            | 2A-3018           | 6101-1018            |
| <b>HONDA</b>      |                      |                           |                      |                   |                      |
| 31207-657-671     | 6146-1011            | 04513                     | 6146-2011            | 2A-3023           | 6101-2715            |
| 31207-657-672     | 6146-1011            | 04516                     | 6140-0012            | 2A-3027           | 6101-0512            |
| 31207-PC2-661     | 6146-1410            | 04517                     | 6140-2011            | 2A-3028           | 6101-0513            |
| 31207-PH7-661     | 6146-1410            | 04519                     | 6146-4011            | 2A-3029           | 6101-2711            |
| 31207-PM3-J01     | 6146-1211            | 04521                     | 6144-5521            | 2A-3030           | 6101-2713            |
| 31207-PR4-0030    | 6146-1411            | 04522                     | 6144-7520            | 2A-3034           | 6101-5011            |
|                   |                      | 04530                     | 6143-2811            | 2A-3036           | 6101-1012            |
|                   |                      | 04540                     | 6143-1711            | 2A-3037           | 6101-0514            |
|                   |                      | 04550                     | 6140-1811            | 2A-3038           | 6101-0510            |
|                   |                      | 04580                     | 6146-2521            | 2A-3043           | 6101-3710            |
| <b>IAT</b>        |                      |                           |                      |                   |                      |
| 04113             | 6160-3111            | 04590                     | 6101-2810            | 2A-3044           | 6101-3720            |
| 04119             | 6160-3112            | 04591                     | 6101-4010            | 2A-3045           | 6101-4210            |
| 04128             | 6160-1011            | 04592                     | 6101-4020            | 2A-3046           | 6101-4220            |
| 04129             | 6160-1112            | 04593                     | 6101-2821            | 2A-3047           | 6101-0511            |
| 04131             | 6160-2111            | 04594                     | 6101-3710            | 2A-3048           | 6101-0510            |
| 04132             | 6160-1111            | 04595                     | 6101-4210            | 2A-3062           | 6101-2810            |
| 04135             | 6160-1012            | 04596                     | 6101-4220            | 2A-3064           | 6101-2821            |
| 04152             | 6160-6213            | 04597                     | 6101-3720            | 2B-3001           | 6102-4510            |
| 04153             | 6160-6214            | 04830                     | 6102-0910            | 2B-3006           | 6102-4012            |
| 04154             | 6160-5911            | 04831                     | 6102-4011            | 2B-3016           | 6102-4010            |
| 04157             | 6160-6021            | 04901                     | 6101-1410            | 2B-3017           | 6102-4011            |
| 04158             | 6160-6214            | 04902                     | 6101-1411            | 2B-3034           | 6102-0910            |
| 04159             | 6160-6711            |                           |                      | 2C-3000           | 6103-1111            |
| 04160             | 6160-6721            |                           |                      | 2C-3001           | 6103-1311            |
| 04162             | 6160-6213            | <b>INTERNATIONAL (IH)</b> |                      |                   |                      |
| 04163             | 6160-6422            | 1964 896 C1               | 6160-6215            |                   |                      |
| 04170             | 6160-6215            | 1983 354 C1               | 6160-6911            |                   |                      |
| 04172             | 6160-6911            | 3078 961 R1               | 6160-5911            |                   |                      |
| 04173             | 6160-6912            | 3079 063 R1               | 6160-6422            |                   |                      |
| 04176             | 6160-6215            | 3079 252 R1               | 6160-6711            |                   |                      |
| 04177             | 6160-6215            | 3079 252 R1               | 6160-6711            | 185846159         | 6140-0013            |
| 04192             | 6160-4111            | 3079 548 R1               | 6160-6215            | 185846173         | 6140-1811            |
| 04193             | 6160-4122            | 3079 548 R1               | 6160-6215            | 185846186         | 6140-2111            |
| 04194             | 6160-4123            | 3132 444 R1               | 6160-5911            | 185846366         | 6146-1011            |
| 04195             | 6160-5121            | 3132 632 R1               | 6160-6021            |                   |                      |
| 04196             | 6160-4121            | F 94 1510                 | 6160-6721            |                   |                      |
| 04198             | 6160-4221            |                           |                      |                   |                      |
| 04214             | 6166-3511            |                           |                      |                   |                      |
| 04320             | 6170-1012            |                           |                      |                   |                      |
| 04402             | 6165-5012            |                           |                      |                   |                      |

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| Reference Numbers | Signet Sales Numbers | Reference Numbers | Signet Sales Numbers | Reference Numbers | Signet Sales Numbers |
|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| <b>ISUZU</b>      |                      | <b>J &amp; N</b>  |                      | <b>J &amp; N</b>  |                      |
| 1-81121-007-0     | 6144-5520            | 300-12024         | 6101-2711            | 300-30004         | 6165-4511            |
| 1-81121-008-0     | 6144-7520            | 300-12025         | 6101-2713            | 300-44001         | 6140-2511            |
| 1-81121-024-0     | 6146-2521            | 300-12026         | 6101-2715            | 300-44004         | 6140-0013            |
| 1-81121-025-0     | 6140-2521            | 300-12027         | 6101-3516            | 300-44005         | 6140-2111            |
| 1-81121-028-0     | 6140-1121            | 300-12030         | 6101-0514            | 300-44006         | 6140-1011            |
| 1-81121-042-0     | 6146-3011            | 300-12031         | 6101-0510            | 300-44007         | 6140-2521            |
| 1-81121-044-0     | 6146-3021            | 300-12032         | 6101-0513            | 300-44008         | 6140-2011            |
| 5-81121-014-0     | 6140-1811            | 300-12033         | 6101-0512            | 300-44009         | 6140-0012            |
| 5-81121-016-0     | 6140-2111            | 300-12035         | 6101-1016            | 300-44011         | 6140-1811            |
| 5-81121-021-0     | 6140-2511            | 300-12037         | 6101-1012            | 300-48000         | 6143-2511            |
| 5-81121-022-0     | 6146-2511            | 300-12038         | 6101-0511            | 300-48001         | 6143-2011            |
| 5-81121-022-1     | 6146-2511            | 300-12044         | 6101-1018            | 300-48006         | 6143-2021            |
| 5-81121-029-0     | 6146-2011            | 300-12052         | 6101-1017            | 300-48007         | 6143-2211            |
| 5-81121-031-0     | 6146-1011            | 300-12066         | 6101-1010            | 300-48008         | 6143-1411            |
| 5-81121-046-0     | 6140-1011            | 300-12069         | 6101-1019            | 300-48009         | 6143-2521            |
| 8-10467-708-0     | 6101-0510            | 300-12074         | 6101-1015            | 300-50000         | 6101-2810            |
| 8-94170-207-0     | 6146-1410            | 300-12087         | 6101-1410            | 300-50001         | 6101-2821            |
| 8-94178-050-0     | 6144-2211            | 300-12088         | 6101-1411            | 300-50006         | 6144-7521            |
| 8-94218-767-0     | 6140-0013            | 300-12089         | 6101-0510            | 300-52000         | 6146-2511            |
| 8-94377-253-0     | 6146-1411            | 300-14000         | 6102-4011            | 300-52001         | 6146-4011            |
| 8-94377-259-0     | 6146-1211            | 300-14001         | 6102-4012            | 300-52002         | 6146-3011            |
| 8-94438-365-0     | 6140-2011            | 300-14002         | 6102-4510            | 300-52008         | 6146-1411            |
| 8-97044-130-0     | 6140-1411            | 300-14003         | 6102-0711            | 300-52009         | 6146-1011            |
|                   |                      | 300-14004         | 6102-4010            |                   |                      |
|                   |                      | 300-14005         | 6102-0910            |                   |                      |
| <b>IVECO</b>      |                      |                   |                      | <b>JOHN DEERE</b> |                      |
| 9966739           | 6160-6711            | 300-14009         | 6102-0613            | AL 25 274         | 6160-5911            |
| 42530252          | 6160-6223            | 300-14014         | 6102-0612            | AL 41 625         | 6160-6911            |
| 42531335          | 6160-6721            | 300-14016         | 6102-0911            | AL 55 042         | 6160-6215            |
| 93193700          | 6160-6213            | 300-24000         | 6160-4221            | AR 66 778         | 6146-4011            |
|                   |                      | 300-24001         | 6160-6511            | AZ 14 506         | 6160-5911            |
|                   |                      | 300-24002         | 6160-6215            |                   |                      |
|                   |                      | 300-24003         | 6160-6422            | CH 12476          | 6146-2511            |
|                   |                      | 300-24004         | 6160-3112            |                   |                      |
|                   |                      | 300-24006         | 6160-4122            |                   |                      |
|                   |                      | 300-24007         | 6160-4121            |                   |                      |
| <b>J &amp; N</b>  |                      |                   |                      | <b>JUST PARTS</b> |                      |
| 300-10000         | 6103-1111            | 300-24008         | 6160-5911            | BO2-3008          | 6160-3112            |
| 300-10001         | 6103-1311            | 300-24009         | 6160-6021            | BO2-3011          | 6160-6213            |
| 300-10002         | 6103-1111            | 300-24010         | 6160-6214            | BO2-3012          | 6160-6214            |
| 300-12000         | 6101-4020            | 300-24011         | 6160-6213            | BO2-3013          | 6160-5911            |
| 300-12001         | 6101-4010            | 300-24014         | 6160-6721            | BO2-3014          | 6160-6711            |
| 300-12002         | 6101-4220            | 300-24015         | 6160-6711            | BO2-3015          | 6160-1011            |
| 300-12003         | 6101-4210            | 300-24016         | 6160-1111            | BO2-3016          | 6160-1112            |
| 300-12005         | 6101-5020            | 300-24017         | 6160-1011            | BO2-3018          | 6160-1111            |
| 300-12006         | 6101-5021            | 300-24019         | 6160-4111            | BO2-3020          | 6160-6021            |
| 300-12007         | 6101-5011            | 300-24020         | 6160-4123            | BO2-3023          | 6160-6215            |
| 300-12010         | 6101-3010            | 300-24021         | 6160-1112            | BO2-3024          | 6160-6721            |
| 300-12015         | 6101-3510            | 300-24030         | 6160-2111            | BO2-3025          | 6160-4121            |
| 300-12017         | 6101-3511            | 300-24031         | 6160-3111            | BO2-3026          | 6160-4122            |
| 300-12019         | 6101-3710            | 300-30002         | 6165-5012            | BO2-3027          | 6160-4111            |
| 300-12020         | 6101-3720            | 300-30003         | 6165-2711            | BO2-3028          | 6160-4123            |



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| Reference Numbers | Signet Sales Numbers | Reference Numbers | Signet Sales Numbers | Reference Numbers          | Signet Sales Numbers |
|-------------------|----------------------|-------------------|----------------------|----------------------------|----------------------|
| <b>JUST PARTS</b> |                      | <b>JUST PARTS</b> |                      | <b>KHD</b>                 |                      |
| BO2-3030          | 6160-6422            | HT2-3005          | 6140-0013            | 1215 4179                  | 6160-6215            |
| BO2-3031          | 6160-4221            | HT2-3007          | 6140-1011            | 1218 9130                  | 6160-6711            |
| BO2-3032          | 6160-5121            | HT2-3009          | 6140-2111            | 1227 0019                  | 6160-6213            |
| BO2-3034          | 6160-6511            | HT2-3010          | 6140-2521            | 2016 7087                  | 6160-3112            |
| BO2-3051          | 6160-1012            | HT2-3011          | 6140-2511            | 4248 5211                  | 6160-4111            |
| BO2-3057          | 6160-1013            | LU2-3002          | 6165-5012            | 4248 7777                  | 6160-6721            |
| C2-3001           | 6103-1111            | LU2-3007          | 6165-2711            | 4248 8032                  | 6160-6223            |
| C2-3002           | 6103-1311            | MR2-3005          | 6166-3511            | 4248 8354                  | 6160-4122            |
| D2-3000           | 6101-0514            | MT2-3001          | 6143-1211            |                            |                      |
| D2-3001           | 6101-0510            | MT2-3003          | 6143-2511            | <b>KOMATSU</b>             |                      |
| D2-3002           | 6101-0513            | MT2-3004          | 6143-2011            | 028-200-1780               | 6146-2511            |
| D2-3005           | 6101-0512            | MT2-3007          | 6143-2211            |                            |                      |
| D2-3006           | 6101-0511            | NK2-3004          | 6101-2810            |                            |                      |
| D2-3007           | 6101-0510            | NK2-3005          | 6101-2821            |                            |                      |
| D2-3018           | 6101-1018            | NP2-3001          | 6146-4011            | <b>KUBOTA</b>              |                      |
| D2-3019           | 6101-1012            | NP2-3002          | 6146-2511            | 11197-63071                | 6146-1411            |
| D2-3022           | 6101-1017            | NP2-3004          | 6146-3011            | 11460-63071                | 6146-1211            |
| D2-3024           | 6101-1019            | VL2-3000          | 6170-1011            | 15425-63071                | 6146-2011            |
| D2-3025           | 6101-1016            |                   |                      | 15451-63071                | 6146-2511            |
| D2-3029           | 6101-1015            | <b>KAWASAKI</b>   |                      | 15501-63071                | 6146-1011            |
| D2-3037           | 6101-1410            | 21080-2058        | 6146-0612            | 15511-63071                | 6146-1410            |
| D2-3038           | 6101-1411            |                   |                      |                            |                      |
| D2-3053           | 6101-2715            |                   |                      |                            |                      |
| D2-3055           | 6101-2713            | <b>KHD</b>        |                      | <b>LAMBORGHINI (S+L+H)</b> |                      |
| D2-3056           | 6101-2711            |                   |                      | 2 9619 082 8               | 6160-6213            |
| D2-3060           | 6101-3010            | 129 0076          | 6160-6021            |                            |                      |
| D2-3062           | 6101-3521            | 129 0077          | 6160-4121            |                            |                      |
| D2-3064           | 6101-3512            | 129 0078          | 6160-4121            |                            |                      |
| D2-3067           | 6101-3511            | 129 0084          | 6160-5121            |                            |                      |
| D2-3068           | 6101-3510            | 129 2934          | 6160-5911            | <b>LEECE NEVILLE</b>       |                      |
| D2-3069           | 6101-3012            | 129 9234          | 6160-5911            | L1021                      | 6107-4511            |
| D2-3070           | 6101-3516            | 130 4450          | 6160-6511            | MXB2006                    | 6107-4511            |
| D2-3074           | 6101-3710            | 130 7664          | 6160-6422            |                            |                      |
| D2-3075           | 6101-3720            | 130 8145          | 6160-6213            |                            |                      |
| D2-3082           | 6101-4010            | 130 8581          | 6160-3112            | <b>LESTER</b>              |                      |
| D2-3085           | 6101-4020            | 130 8809          | 6160-6711            | 1                          | 6101-0011            |
| D2-3088           | 6101-4210            | 130 8844          | 6160-6721            | 40                         | 6101-0060            |
| D2-3089           | 6101-4220            | 130 9820          | 6160-6213            | 87                         | 6101-0013            |
| D2-3091           | 6101-5021            | 130 9844          | 6160-6213            | 198                        | 6101-0060            |
| D2-3093           | 6101-5020            | 130 9844          | 6160-6223            | 230                        | 6101-0012            |
| D2-3094           | 6101-5011            | 131 8429          | 6160-6912            | 242                        | 6101-0013            |
| F2-3006           | 6102-4010            | 131 9003          | 6160-6213            | 733                        | 6101-0060            |
| F2-3007           | 6102-4011            | 132 0042          | 6160-4122            | 733                        | 6101-0011            |
| F2-3008           | 6102-4012            | 132 0328          | 6160-4121            | 1006                       | 6101-0011            |
| F2-3009           | 6102-4510            | 298 5056          | 6160-6021            | 1703                       | 6101-1019            |
| F2-3016           | 6102-0711            | 298 5112          | 6160-5911            | 1748                       | 6101-2715            |
| F2-3017           | 6102-0910            | 812 2131          | 6160-6511            | 1751                       | 6101-1018            |
| HT2-3002          | 6140-0012            | 812 2158          | 6160-6721            | 1753                       | 6102-0613            |
| HT2-3003          | 6140-2011            | 812 2169          | 6160-6422            | 1776                       | 6101-1011            |
| HT2-3004          | 6140-1811            | 812 2372          | 6160-4122            | 1779                       | 6101-1062            |

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|-------------------|----------------------|----------------------|----------------------|----------------------------------|----------------------|
| <b>LESTER</b>     |                      | <b>LIEBHERR</b>      |                      | <b>MARELLI (MAGNETI MARELLI)</b> |                      |
| 1797              | 6101-2713            | 736 38 17            | 6160-6422            | 723 868 01                       | 6166-3511            |
| 1802              | 6101-3010            |                      |                      |                                  |                      |
| 1814              | 6101-1010            |                      |                      |                                  |                      |
| 1826              | 6101-1017            |                      |                      |                                  |                      |
| 1842              | 6101-2719            | <b>LUCAS</b>         |                      | <b>MASSEY FERGUSON</b>           |                      |
| 1857              | 6101-2711            | 54243590             | 6165-5012            | 1014 564 M91                     | 6101-0060            |
| 1861              | 6101-1011            | 54247379             | 6165-4511            | 1019 267 M91                     | 6101-1014            |
| 1862              | 6101-3513            | 54268382             | 6165-2711            | 1022 600 M91                     | 6101-0060            |
| 1866              | 6101-4010            | 54292376             | 6165-2711            | 1022 601 M91                     | 6101-0012            |
| 1867              | 6101-1016            | 60600071             | 6165-4511            | 1025 376 M91                     | 6101-1019            |
| 1891              | 6101-1014            | TIB-108              | 6165-4511            | 1026 534 M91                     | 6101-2715            |
| 1898              | 6101-2715            | TJB-103              | 6165-5012            | 1033 223 M91                     | 6101-3510            |
| 1904              | 6101-3521            | TJB-108              | 6165-4511            | 1035 394 M91                     | 6103-1111            |
| 1927              | 6101-1010            | TJB-111              | 6165-2711            | 1094 960 M91                     | 6101-2711            |
| 1978              | 6101-1019            | TJB-114              | 6165-2711            | 1095 634 M91                     | 6101-2711            |
| 1981              | 6101-5021            |                      |                      | 1504 678 M91                     | 6101-1061            |
| 1985              | 6101-3512            |                      |                      | 1751 878 M91                     | 6101-0012            |
| 1986              | 6101-2711            |                      |                      | 1751 880 M91                     | 6101-1014            |
| 1988              | 6101-1010            |                      |                      | 1805 444 M1                      | 6160-5911            |
| 2000              | 6102-4510            | <b>MACK</b>          |                      | 8599-24-705                      | 6143-2011            |
| 2003              | 6102-0612            | 9352 004 004 112     | 6160-5911            |                                  |                      |
| 2023              | 6101-4020            |                      |                      |                                  |                      |
| 2033              | 6101-1061            |                      |                      |                                  |                      |
| 2035              | 6101-1015            |                      |                      |                                  |                      |
| 2049              | 6101-4210            | <b>MAGIRUS-DEUTZ</b> |                      | <b>MAZDA</b>                     |                      |
| 2077              | 6101-3511            | 812 2158             | 6160-6721            | F214-18-X60A                     | 6143-1411            |
| 2080              | 6101-3510            | 812 3628             | 6160-4121            | N202-24-705                      | 6143-2012            |
| 2089              | 6101-0514            | 998 3622             | 6160-6213            | N327-18-X60A                     | 6143-1711            |
| 2092              | 6101-3012            |                      |                      | R201-18-X60                      | 6143-2211            |
| 2097              | 6101-5020            | <b>MAN</b>           |                      | R201-24-705                      | 6143-2211            |
| 2109              | 6101-3516            | 81 26203 0002        | 6160-4122            | RF01-24-705                      | 6146-2011            |
| 2112              | 6102-4011            | 81 26203 0006        | 6160-4111            | SE45-18-X60                      | 6143-2221            |
| 2115              | 6102-4010            | 81 26203 6005        | 6160-6021            |                                  |                      |
| 2118              | 6102-4012            | 81 26203 6006        | 6160-5911            |                                  |                      |
| 2204              | 6101-2711            | 81 26203 6007        | 6160-4121            | <b>MERCEDES BENZ</b>             |                      |
| 2205              | 6101-2712            | 81 26203 6014        | 6160-6721            | 000 151 11 15                    | 6160-5911            |
| 2214              | 6101-0511            | 81 26203 6018        | 6160-4122            | 000 151 13 15                    | 6160-6021            |
| 2255              | 6101-0513            | 81 26203 6019        | 6160-4123            | 000 151 15 15                    | 6160-5121            |
| 2273              | 6101-0512            | 81 26203 6020        | 6160-6721            | 000 151 16 15                    | 6160-4121            |
| 2276              | 6101-2713            | 90 81690 1124        | 6160-4121            | 000 151 18 15                    | 6160-3112            |
| 2280              | 6101-1012            | A5 00024 1467        | 6160-6021            | 000 151 23 15                    | 6160-6214            |
| 2653              | 6101-1061            | A5 00024 2226        | 6160-5911            | 000 151 23 15                    | 6160-6214            |
| 2656              | 6101-5030            |                      |                      | 000 151 27 15                    | 6160-4111            |
| 2657              | 6101-1018            |                      |                      | 000 151 31 15                    | 6160-4122            |
| 2739              | 6101-5011            | <b>MANDO</b>         |                      | 000 151 32 15                    | 6160-3112            |
| 2740              | 6102-0711            | TM200B 00201         | 6143-1411            | 000 151 33 15                    | 6160-6721            |
|                   |                      | TM200B 03601         | 6143-2811            | 000 151 33 15                    | 6160-6721            |
|                   |                      |                      |                      | 000 151 34 15                    | 6160-6711            |
|                   |                      |                      |                      | 000 151 34 15                    | 6160-6711            |
|                   |                      |                      |                      | 000 151 37 15                    | 6160-6214            |



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|----------------------|----------------------|------------------------------|----------------------|-------------------|----------------------|
| <b>MERCEDES BENZ</b> |                      | <b>MITSUBISHI HEAVY IND.</b> |                      | <b>MOTORCRAFT</b> |                      |
| 000 151 39 15        | 6160-4121            | 40566-01011                  | 6144-7521            | SM-453            | 6102-4010            |
| 000 151 40 15        | 6160-4122            |                              |                      | SM-456            | 6102-4011            |
| 000 151 41 15        | 6160-4111            |                              |                      | SM-459            | 6102-4012            |
| 000 151 45 15        | 6160-6711            |                              |                      | SM-461            | 6102-0711            |
| 000 151 47 15        | 6160-2111            | <b>MITSUBISHI MOTORS</b>     |                      | SM-462            | 6102-4012            |
| 000 151 48 15        | 6160-6721            | MD 607413                    | 6143-1211            | SM-463            | 6101-2711            |
| 000 151 51 15        | 6160-6711            | MD 607636                    | 6143-2011            | SM-475            | 6102-0910            |
| 000 151 52 15        | 6160-6214            | MD 611020                    | 6143-2211            | SM-482            | 6102-0910            |
| 000 151 53 15        | 6160-6721            | MD 618369                    | 6143-2011            | SME-466           | 6143-2211            |
|                      |                      | MD 618450                    | 6143-1211            | SME-469           | 6143-2511            |
|                      |                      | MD 618453                    | 6143-1411            | SME-483           | 6143-1411            |
|                      |                      | MD 619158                    | 6143-1411            | SME-491           | 6143-1711            |
|                      |                      | ME 700037                    | 6143-2521            | SME-493           | 6143-2811            |
|                      |                      | ME 700116                    | 6143-2011            |                   |                      |
|                      |                      | ME 700136                    | 6143-2021            | <b>MTU</b>        |                      |
| <b>METRO</b>         |                      | ME 700321                    | 6143-2521            | 869 151 00 66     | 6160-4123            |
| 61-1020              | 6101-4010            | ME 700832                    | 6143-6021            | 869 151 06 40     | 6160-5121            |
| 61-1021              | 6101-4020            | ME 700854                    | 6143-2221            | 869 586 04 86     | 6160-4221            |
| 61-1022              | 6101-4210            | MM 502333                    | 6143-2012            |                   |                      |
| 61-1023              | 6101-4220            |                              |                      | <b>MWM-DIESEL</b> |                      |
| 61-1032              | 6101-0511            |                              |                      | 00 800 172 0007   | 6160-6021            |
| 61-1040              | 6101-1711            |                              |                      | 3 0572 99 8 0001  | 6160-4121            |
| 61-2003              | 6102-4012            |                              |                      | 6 0690 01 4 0509  | 6160-5911            |
| 61-2010              | 6102-0910            |                              |                      | 6 0690 01 4 0512  | 6160-6021            |
| 61-82202             | 6146-2011            | <b>MONMARY</b>               |                      | 6 0690 01 4 0518  | 6160-6223            |
| 61-82202-1           | 6146-2011            | 132-01103                    | 6143-2511            | 6 0690 01 4 0520  | 6160-6711            |
| 61-82501             | 6146-2511            | 619-11210                    | 6102-0910            | 6 0690 01 4 0521  | 6160-6721            |
| 61-84000             | 6101-2810            | 419-111866                   | 6101-4010            |                   |                      |
| 61-84001             | 6101-2821            | 419-111981                   | 6101-5021            | <b>NCB</b>        |                      |
|                      |                      | 419-112023                   | 6101-4020            | 1851961A          | 6101-35120           |
| <b>MITSUBISHI</b>    |                      | 419-112045                   | 6101-3710            | 1852981A          | 6101-35130           |
| M106X 011 71         | 6143-2012            | 419-112048                   | 6101-3720            | 1876366A          | 6101-2711            |
| M106X 012 71         | 6143-1211            | 419-112049                   | 6101-4210            | 1945500A          | 6101-40200           |
| M106X 022 71         | 6143-2011            | 419-112080                   | 6101-3510            | 1945840A          | 6101-50200           |
| M106X 291 71         | 6143-2521            | 419-112097                   | 6101-5020            | 1945906A          | 6101-40100           |
| M106X 292 72         | 6143-2511            | 419-112113                   | 6101-4220            | 1946391A          | 6101-35100           |
| M106X 293 71         | 6143-2021            | 619-112101                   | 6102-0910            | 1948600A          | 6101-35210           |
| M106X 298 71         | 6143-2011            | 619-112118                   | 6102-4012            | 1948999A          | 6101-35100           |
| M106X 404 71         | 6143-2521            |                              |                      | 1949112A          | 6101-35210           |
| M106X 406 71         | 6143-2211            | <b>MOTORCRAFT</b>            |                      | 1949190A          | 6101-2715            |
| M106X 408 71         | 6143-2221            | SM-256                       | 6102-0612            | 1950307A          | 6101-1016            |
| M106X 410 71         | 6143-6021            | SM-265                       | 6102-0613            | 1950417A          | 6101-2715            |
| M106X 416 71         | 6143-2011            | SM-315                       | 6102-0612            | 1951254A          | 6101-50210           |
| M106X 416 72         | 6143-2011            | SM-322                       | 6102-4510            | 1956903A          | 6101-30120           |
| M106X 506 71         | 6143-2211            | SM-329                       | 6102-4510            | 1959458A          | 6101-35160           |
| M106X 521 71         | 6143-1411            | SM-332                       | 6102-4510            | 1961320A          | 6101-40100           |
| M106X 542 71         | 6143-1711            | SM-334                       | 6102-4510            | 1967042A          | 6101-30100           |
| M106X 550 71         | 6143-1211            | SM-335                       | 6102-4510            | 1967044A          | 6101-35210           |
| M106X 585 71         | 6143-1411            | SM-335A                      | 6102-4510            | 1967045A          | 6101-35100           |
| M106X 586 71         | 6143-1412            | SM-444                       | 6102-4510            |                   |                      |

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| <b>NCB</b>        |                      | <b>ONAN</b>       |                      | <b>OREM</b>       |                      |
| 1967046A          | 6101-35110           | 191-1438          | 6143-2011            | 301201            | 6160-6213            |
| 1967349A          | 6101-50300           | 191-1471          | 6143-1211            | 301202            | 6160-4122            |
| 1974786A          | 6101-2713            | 191-1606          | 6143-2021            | 301203            | 6160-4121            |
| 1977818A          | 6101-50110           |                   |                      | 301204            | 6160-4111            |
| 1985249A          | 6101-37100           |                   |                      | 301206            | 6160-6215            |
|                   |                      | <b>OPEL</b>       |                      |                   |                      |
| 1987989A          | 6101-42100           | 12 03 127         | 6160-3111            | 301212            | 6160-1112            |
| 1988322A          | 6101-37200           | 12 03 130         | 6160-6213            | 301213            | 6160-1111            |
| 1988435A          | 6101-42200           | 91 129 000        | 6160-2111            | 301214            | 6160-1011            |
| 10456466A         | 6101-2810            |                   |                      | 301222            | 6160-1012            |
| 10457117A         | 6101-2821            |                   |                      | 301229            | 6160-1013            |
|                   |                      | <b>OREM</b>       |                      |                   |                      |
| 10472559A         | 6101-41210           | 300126            | 6166-3511            | 301231            | 6160-6911            |
| 10473852A         | 6101-41110           | 300261            | 6160-5911            | 301237            | 6160-6912            |
|                   |                      | 300270            | 6160-6214            |                   |                      |
|                   |                      | 300271            | 6160-6213            |                   |                      |
|                   |                      | 300275            | 6160-6422            |                   |                      |
|                   |                      |                   |                      | <b>PEUGEOT</b>    |                      |
| 0-23100-016_      | 6144-5521            | 300277            | 6160-3112            | 5807-28           | 6160-3112            |
| 0-23100-017_      | 6144-2821            | 300279            | 6160-6511            | 5821-95           | 6160-6213            |
| 0-23100-020_      | 6144-2211            | 300283            | 6160-6711            | 5821-97           | 6160-3111            |
| 0-23100-023_      | 6144-7521            | 300284            | 6160-6721            | 5821-C1           | 6160-1111            |
| 1-21100-119_      | 6144-5520            | 300291            | 6160-5121            | 5821-C4           | 6160-2111            |
|                   |                      |                   |                      |                   |                      |
| 1-21100-121_      | 6144-7520            | 300292            | 6160-6214            | 5821-D5           | 6160-1011            |
| 7-23100-016_      | 6144-2211            | 300297            | 6160-4123            | 5821-D8           | 6160-1111            |
| 7-23100-019_      | 6144-5521            | 300440            | 6165-5012            | 5821-E4           | 6160-1012            |
| 7-23100-022_      | 6144-5521            | 300802            | 6143-2021            | 5821-E5           | 6160-1011            |
| 7-23100-025_      | 6144-2211            | 300803            | 6101-2810            | 5821-F7           | 6160-1012            |
|                   |                      |                   |                      |                   |                      |
| 7-23100-029_      | 6144-7521            | 300804            | 6143-2011            | 94 058 072 88     | 6160-3112            |
|                   |                      | 300808            | 6140-0012            | 95 618 366        | 6160-2111            |
|                   |                      | 300809            | 6140-1412            | 95 655 219        | 6160-1011            |
|                   |                      | 300810            | 6143-2012            |                   |                      |
|                   |                      | 300811            | 6143-1211            |                   |                      |
|                   |                      |                   |                      | <b>POCLAIN</b>    |                      |
| 23310-01N11       | 6143-1411            | 300812            | 6140-2011            | A 1541621         | 6160-6021            |
| 23310-0M300       | 6140-1413            | 300815            | 6146-1011            | B 1541622         | 6160-5121            |
| 23310-1S710       | 6143-1412            | 300816            | 6146-2011            | C 1541623         | 6160-4121            |
| 23310-31U00       | 6140-1413            | 300818            | 6140-2111            | U 1541616         | 6160-6422            |
| 23310-37502       | 6140-0012            | 300819            | 6143-2511            |                   |                      |
|                   |                      |                   |                      |                   |                      |
| 23310-42L60       | 6140-1412            | 300820            | 6102-0910            |                   |                      |
| 23310-50Y01       | 6140-1411            | 300826            | 6101-2821            |                   |                      |
| 23310-61503       | 6140-2111            | 300829            | 6140-0013            |                   |                      |
| 23310-97E11       | 6143-1711            | 300832            | 6146-2521            |                   |                      |
| 23310-J5501       | 6140-2511            | 300833            | 6146-2511            |                   |                      |
|                   |                      |                   |                      | <b>RCP</b>        |                      |
| 23310-N5910       | 6143-2012            | 300838            | 6143-2211            | RAG7014           | 6101-0012            |
| 23310-S0100       | 6140-0013            | 300841            | 6143-1411            | RAS230            | 6103-1111            |
| 23310-U7510       | 6143-1211            | 300842            | 6140-2511            | RAS234S           | 6102-4510            |
| 23310-Z9001       | 6140-2521            | 300843            | 6140-1413            | RAS236            | 6101-1012            |
|                   |                      | 300850            | 6143-1412            | RAS237            | 6103-1311            |
|                   |                      |                   |                      |                   |                      |
|                   |                      | 300851            | 6143-1711            | RAS301            | 6102-0613            |
|                   |                      | 300852            | 6146-1411            | RAS303            | 6102-0612            |
|                   |                      | 300856            | 6144-5520            | RAS307            | 6102-4010            |
|                   |                      | 300857            | 6144-7520            | RAS308            | 6102-4011            |
|                   |                      |                   |                      | RAS310            | 6102-4012            |



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| <b>RCP</b>        |                      | <b>RCP</b>        |                      | <b>RENAULT</b>      |                      |
| RAS311            | 6102-0910            | RAS5200           | 6101-2711            | 50 00 808 044       | 6160-6721            |
| RAS312            | 6102-0711            | RAS5205           | 6101-1013            | 50 00 808 244       | 6160-4122            |
| RAS561            | 6165-5012            | RAS5211           | 6101-0510            | 50 00 811 669       | 6160-4221            |
| RAS574            | 6165-4511            | RAS5212           | 6101-0514            | 50 00 814 100       | 6160-4121            |
| RAS582            | 6165-2711            | RAS5217           | 6101-3710            | 50 00 815 815       | 6160-2111            |
| RAS584            | 6165-2711            | RAS5218           | 6101-4210            | 50 00 816 631       | 6160-6721            |
| RAS1688           | 6166-3511            | RAS5219           | 6101-4220            | 50 00 816 636       | 6160-4123            |
| RAS1690           | 6170-1011            | RAS5220           | 6101-3720            | 50 00 822 883       | 6160-6711            |
| RAS1890           | 6160-6021            | RAS5223           | 6101-2715            | 50 01 823 124       | 6160-6721            |
| RAS1891           | 6160-5911            | RAS5225           | 6101-2722            | 50 01 829 828       | 6160-6711            |
| RAS1893           | 6160-4122            | RAS5226           | 6101-0511            | 50 01 830 084       | 6160-6721            |
| RAS1899           | 6160-6711            | RAS5227           | 6101-1410            | 77 01 002 234       | 6160-5911            |
| RAS1900           | 6160-6721            | RAS5228           | 6101-1411            | 77 01 007 388       | 6160-4121            |
| RAS1901           | 6160-6422            | RAS5229           | 6101-2810            | 77 01 033 236       | 6160-1111            |
| RAS1908           | 6160-6213            | RAS5230           | 6101-1018            | 77 01 033 289       | 6160-2111            |
| RAS1910           | 6160-6214            | RAS5231           | 6101-2821            | 77 01 036 717       | 6160-1111            |
| RAS1911           | 6160-4221            | RAS5232           | 6101-0510            | 77 01 042 467       | 6160-1012            |
| RAS1912           | 6160-4121            | RAS5238           | 6101-1711            | 89 83 501 588       | 6160-1011            |
| RAS1913           | 6160-3111            | RAS5240           | 6101-4121            |                     |                      |
| RAS1914           | 6160-3112            | RAS5241           | 6101-4111            | <b>S.N.V.I .</b>    |                      |
| RAS1926           | 6160-6511            | RAS5816           | 6140-0012            | 00 01 117 446       | 6160-6721            |
| RAS1927           | 6160-4122            | RAS5819           | 6140-1811            | 00 01 119 530       | 6160-4122            |
| RAS1928           | 6160-4123            | RAS5854           | 6146-4011            | 00 01 120 317       | 6160-4121            |
| RAS1930           | 6160-4111            | RAS5856           | 6146-2511            |                     |                      |
| RAS1931           | 6160-5121            | RAS5857           | 6143-2511            | <b>SAAB</b>         |                      |
| RAS1935           | 6160-6215            | RAS5859           | 6143-2211            | 41 60 123           | 6160-1011            |
| RAS1936           | 6160-1112            | RAS5860           | 6143-2021            | 75 27 781           | 6160-1011            |
| RAS1937           | 6160-1111            | RAS5861           | 6143-2011            | 75 35 289           | 6160-1011            |
| RAS1938           | 6160-1013            | RAS5864           | 6143-1211            | 83 22 281           | 6160-3111            |
| RAS5101           | 6101-1018            | RAS5865           | 6146-2521            |                     |                      |
| RAS5133           | 6101-1015            | RAS5874           | 6143-1211            |                     |                      |
| RAS5135           | 6101-4020            | RAS5875           | 6146-2011            |                     |                      |
| RAS5140           | 6101-5020            | RAS5876           | 6146-3021            |                     |                      |
| RAS5144           | 6101-1016            | RAS5877           | 6146-1410            |                     |                      |
| RAS5150           | 6101-2713            | RAS5879           | 6143-1411            | <b>SAME (S+L+H)</b> |                      |
| RAS5154           | 6101-5021            | RAS5880           | 6146-1411            | 296190207           | 6160-5911            |
| RAS5160           | 6101-4010            | RAS5881           | 6143-2811            | 296190719           | 6160-4121            |
| RAS5162           | 6101-3010            | RAS5900           | 6144-7520            | 296190828           | 6160-6213            |
| RAS5164           | 6101-3521            | RAS5901           | 6144-5520            | 296191107           | 6160-5911            |
| RAS5165           | 6101-3510            | RAS5902           | 6144-5521            | 296191201           | 6160-6223            |
| RAS5166           | 6101-3511            | RAS5903           | 6144-7521            | 296191801           | 6160-6711            |
| RAS5177           | 6101-5011            |                   |                      |                     |                      |
| RAS5180           | 6101-3512            |                   |                      |                     |                      |
| RAS5186           | 6101-1019            |                   |                      |                     |                      |
| RAS5189           | 6101-2711            |                   |                      |                     |                      |
| RAS5193           | 6101-1017            | <b>RENAULT</b>    |                      | <b>SAWAFUJI</b>     |                      |
| RAS5196           | 6101-3012            | 50 00 241 467     | 6160-6021            | 1320-073-00X0       | 6147-5521            |
| RAS5197           | 6101-3516            | 50 00 242 226     | 6160-5911            | 1320-075-00X0       | 6147-6021            |
| RAS5198           | 6101-0512            | 50 00 242 226     | 6160-5911            | 1320-097-00X0       | 6147-6021            |
| RAS5199           | 6101-0513            | 50 00 243 314     | 6160-3111            |                     |                      |
|                   |                      | 50 00 587 874     | 6160-4122            |                     |                      |

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| Reference Numbers                    | Signet Sales Numbers | Reference Numbers  | Signet Sales Numbers | Reference Numbers   | Signet Sales Numbers |
|--------------------------------------|----------------------|--------------------|----------------------|---------------------|----------------------|
| <b>SCANIA</b>                        |                      | <b>SWS</b>         |                      | <b>UNIC</b>         |                      |
| 192012                               | 6160-6021            | 3-2000             | 6102-4011            | 000 654 722         | 6160-4121            |
| 192976                               | 6160-4121            | 3-2070             | 6102-4510            | 000 927 931         | 6160-6223            |
| 280901                               | 6160-6711            | 3-2090             | 6102-0711            | 009 920 350         | 6160-4121            |
| 292892                               | 6160-5911            | 3-3000             | 6103-1111            | 009 926 497         | 6160-6021            |
| 300330                               | 6160-4122            | 3-3010             | 6103-1311            | 009 927 931         | 6160-6223            |
| 313254                               | 6160-6721            | 3-92030            | 6165-5012            | 009 983 622         | 6160-6213            |
| 353381                               | 6160-4123            | 3-93020            | 6166-3511            | 061 654 722         | 6160-4121            |
| 386760                               | 6160-6721            | 11-92180           | 6165-4511            |                     |                      |
| <b>SEAT</b>                          |                      | <b>TALBOT</b>      |                      | <b>UNIPOINT</b>     |                      |
| 000 993 6724                         | 6160-6213            | 94 058 219 58      | 6160-6213            | 5003                | 6146-2521            |
| NG 003134 29                         | 6160-3111            |                    |                      | 5103                | 6146-2511            |
| NG 004075 29                         | 6160-6214            |                    |                      | AM-2030             | 6160-1011            |
|                                      |                      |                    |                      | AM-2050             | 6160-2111            |
|                                      |                      |                    |                      | P-500103            | 6146-2011            |
| <b>SONACOME (S.N.V.I.)</b>           |                      | <b>THERMO-KING</b> |                      |                     |                      |
| 1117446                              | 6160-6721            | 44-2924            | 6140-0012            | P-705127            | 6101-2810            |
| 1119530                              | 6160-4122            | 44-7016            | 6140-2011            | P-715027            | 6101-2821            |
| 1120317                              | 6160-4121            |                    |                      |                     |                      |
| <b>STEYR (STEYR-DAIMLER-PUCH AG)</b> |                      | <b>TOYOSHA</b>     |                      | <b>VALEO</b>        |                      |
| 409 09 0707                          | 6160-5911            | 8115-3001-00       | 6140-1811            | 186 917             | 6170-1011            |
| 609 09 0713                          | 6160-6021            | 8115-3051-00       | 6140-0012            | 187 732             | 6170-1012            |
| 609 09 0718                          | 6160-4122            | 8115-4001-00       | 6140-2111            |                     |                      |
| 614 09 0705                          | 6160-4121            | 8119-80010-00      | 6140-0013            |                     |                      |
| 408 00 09 0701                       | 6160-6213            |                    |                      | <b>VALLEY FORGE</b> |                      |
| 408 00 09 0710                       | 6160-6711            |                    |                      | W-7542              | 6101-1012            |
| 410 00 09 0704                       | 6160-5911            |                    |                      | W-7550              | 6103-1111            |
| 610 00 09 0728                       | 6160-6021            |                    |                      | W-7553              | 6101-3010            |
| 612 00 09 0715                       | 6160-6721            |                    |                      | W-7556              | 6101-4020            |
| 551 00 40 0515 1                     | 6160-4121            |                    |                      | W-7557              | 6101-4010            |
| <b>SUBARU</b>                        |                      | <b>TOYOTA</b>      |                      |                     |                      |
| 23310-AA001                          | 6143-1411            | 28160-01020        | 6146-1411            | W-7566              | 6103-1311            |
| 23310-AA040                          | 6146-1411            | 28160-11711-71     | 6146-0612            | W-7568              | 6101-5021            |
| 23310-AA050                          | 6146-1211            | 28160-15090        | 6146-1410            | W-7569              | 6101-5020            |
| 23310-AA110                          | 6146-1411            | 28160-15091        | 6146-1410            | W-7587              | 6101-0512            |
| 24370-56108                          | 6140-0010            | 28160-26070        | 6146-1011            | W-7588              | 6101-0513            |
|                                      |                      | 28160-26071        | 6146-1011            | W-7592              | 6102-4011            |
|                                      |                      | 28160-47040        | 6146-2511            | W-7594              | 6102-4010            |
|                                      |                      | 28160-47040        | 6146-2511            |                     |                      |
|                                      |                      | 28160-54070        | 6146-2011            | <b>VOLKSWAGEN</b>   |                      |
|                                      |                      | 28160-54071        | 6146-2011            | 035 911 311 B       | 6160-1011            |
| 49200-7212                           | 6146-1011            | 28160-65031        | 6146-1410            | 035 911 311 C       | 6160-1011            |
| 49200-7502                           | 6146-1410            | 28160-74070        | 6146-1411            | 035 911 311 D       | 6160-1011            |
|                                      |                      | 28160-75120        | 6146-2012            | 035 911 311 E       | 6160-1011            |
|                                      |                      | 28160-76060        | 6146-1211            | 046 911 311         | 6160-3111            |
|                                      |                      | 28160-77090        | 6146-2521            |                     |                      |
| <b>SWS</b>                           |                      | 28160-78151-71     | 6146-1021            | 046 911 311 A       | 6160-3111            |
| 3-1000                               | 6101-0514            |                    |                      | 053 911 311         | 6160-1012            |
| 3-1040                               | 6101-0513            |                    |                      | 053 911 311         | 6160-1012            |
| 3-1050                               | 6101-0512            |                    |                      | 061 911 311         | 6160-5911            |
| 3-1320                               | 6101-0511            |                    |                      | 068 911 311         | 6160-3112            |
| 3-1360                               | 6101-1016            |                    |                      |                     |                      |



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|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| <b>VOLKSWAGEN</b> |                      | <b>WAGNER</b>     |                      | <b>WAI</b>        |                      |
| 068 911 311 B     | 6160-3112            | W400-35           | 6160-1111            | 61-143            | 6101-4111            |
| 068 911 311 G     | 6160-1112            | W400-36           | 6160-1112            | 61-144            | 6101-4121            |
| 068 911 311 H     | 6160-1112            | W400-37           | 6160-1012            | 61-145            | 6101-1412            |
| 069 911 311       | 6160-6214            | W405-02           | 6146-2511            | 61-146            | 6143-1711            |
| 069 911 311       | 6160-6214            |                   |                      | 61-200            | 6102-4011            |
| 069 911 311 B     | 6160-2111            |                   |                      | 61-201            | 6102-4010            |
| 077 911 311       | 6160-1112            |                   |                      | 61-203            | 6102-4012            |
| 142 529           | 6160-1012            |                   |                      | 61-207            | 6102-4510            |
| 547 911 311 A     | 6160-1012            |                   |                      | 61-209            | 6102-0711            |
|                   |                      | <b>WAI</b>        |                      | 61-210            | 6102-0910            |
|                   |                      | 61-100            | 6101-0514            | 61-210-1          | 6102-0910            |
|                   |                      | 61-101            | 6101-0510            | 61-210-2          | 6102-0910            |
|                   |                      | 61-104            | 6101-0513            | 61-211            | 6102-0911            |
|                   |                      | 61-105            | 6101-0512            | 61-211-1          | 6102-0911            |
|                   |                      | 61-107            | 6101-1012            | 61-300            | 6103-1111            |
| <b>VOLVO</b>      |                      |                   |                      |                   |                      |
| 240458            | 6160-4121            | 61-110            | 6101-3511            | 61-301            | 6103-1311            |
| 241279            | 6160-5911            | 61-111            | 6101-3521            | 61-8101           | 6140-0012            |
| 243908            | 6160-3111            | 61-113            | 6101-3012            | 61-8102           | 6140-1811            |
| 244245            | 6160-6021            | 61-114            | 6101-3010            | 61-8103           | 6140-0013            |
| 829693            | 6160-6223            | 61-115            | 6101-3510            | 61-8105           | 6140-1011            |
| 829693            | 6160-6223            | 61-116            | 6101-3516            | 61-8106           | 6140-2011            |
| 844414            | 6160-4122            | 61-117            | 6101-3512            | 61-8108           | 6140-2111            |
| 847985            | 6160-4111            | 61-118            | 6101-3710            | 61-8110           | 6140-2521            |
| 848093            | 6160-4123            | 61-118-1          | 6101-37100           | 61-8111           | 6140-2511            |
| 1257690           | 6160-6214            | 61-119            | 6101-3720            | 61-8112           | 6140-1412            |
| 1257690           | 6160-6214            | 61-119-1          | 6101-37200           | 61-8113           | 6140-1411            |
| 1363539           | 6160-1011            | 61-120            | 6101-4010            | 61-8114           | 6140-1413            |
| 1367421           | 6160-2111            | 61-120-1          | 6101-40100           | 61-8117           | 6140-2012            |
| 1697803           | 6160-4221            | 61-121            | 6101-4020            | 61-8200           | 6146-4011            |
| 3523571           | 6160-1011            | 61-121-1          | 6101-40200           | 61-8202           | 6146-1011            |
| 6210769           | 6160-6721            | 61-122            | 6101-4210            | 61-8203           | 6146-2511            |
| 6210769           | 6160-6721            | 61-122-1          | 6101-42100           | 61-8203-1         | 6146-2511            |
| 6211872           | 6160-6711            | 61-123            | 6101-4220            | 61-8203-2         | 6146-2511            |
| 6211872           | 6160-6711            | 61-123-1          | 6101-42200           | 61-8204           | 6146-3011            |
| 6212614           | 6160-4122            | 61-124            | 6101-5020            | 61-8205           | 6146-1410            |
| 6643671           | 6160-4111            | 61-125            | 6101-5021            | 61-8207           | 6146-2011            |
| 6645029           | 6160-5911            | 61-126            | 6101-5011            | 61-8208           | 6146-3021            |
| 11999330          | 6160-6721            | 61-132            | 6101-0511            | 61-8209           | 6146-2521            |
| 30862529          | 6160-1012            | 61-133            | 6101-2715            | 61-8211           | 6146-1411            |
| 30862532          | 6160-1012            | 61-134            | 6101-2713            | 61-8301           | 6143-2211            |
|                   |                      | 61-135            | 6101-2711            | 61-8302           | 6143-2511            |
|                   |                      | 61-136            | 6101-1016            | 61-8302-1         | 6143-2511            |
|                   |                      | 61-137            | 6101-1410            | 61-8303           | 6143-2011            |
|                   |                      | 61-137-1          | 6101-1410            | 61-8310           | 6143-1211            |
|                   |                      | 61-138            | 6101-1411            | 61-8311           | 6143-2811            |
| <b>WAGNER</b>     |                      |                   |                      |                   |                      |
| W400-25           | 6160-6214            | 61-138-1          | 6101-1411            | 61-8312           | 6143-2012            |
| W400-29           | 6160-6213            | 61-139            | 6101-0510            | 61-8313           | 6143-1411            |
| W400-32           | 6160-1011            | 61-140            | 6101-1711            | 61-8314           | 6143-2521            |
| W400-33           | 6160-1112            | 61-140-1          | 6101-1711            | 61-8315           | 6143-6021            |
| W400-34           | 6160-2111            | 61-142            | 6101-5030            | 61-8318           | 6143-1412            |

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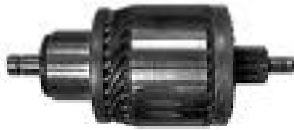
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| <b>WAI</b>        |                      | <b>WILSON</b>     |                      | <b>WILSON</b>     |                      |
| 61-8320           | 6143-2521            | 63-01-3972        | 6101-0012            | 64-02-5913        | 6102-0711            |
| 61-8400           | 6101-2810            | 63-01-3985        | 6101-0013            | 64-02-5914        | 6102-0910            |
| 61-8401           | 6101-2821            | 64-01-3900        | 6101-1016            | 64-02-5923        | 6102-0612            |
| 61-8402           | 6144-5520            | 64-01-3902        | 6101-1011            | 64-02-5924        | 6102-0613            |
| 61-8403           | 6144-7520            | 64-01-3906        | 6101-1062            | 64-03-2901        | 6103-1111            |
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| 61-9105           | 6160-6214            | 64-01-3928        | 6101-0512            | 64-15-6952        | 6160-3112            |
| 61-9108           | 6160-5121            | 64-01-3929        | 6101-0513            | 64-15-6959        | 6160-4121            |
| 61-9109           | 6160-6021            | 64-01-3933        | 6101-0514            | 64-15-6967        | 6160-1011            |
| 61-9110           | 6160-5911            | 64-01-3935        | 6101-0510            | 64-15-6973        | 6160-4111            |
| 61-9112           | 6160-4121            | 64-01-3938        | 6101-4210            | 64-15-6975        | 6160-6511            |
| 61-9113           | 6160-4122            | 64-01-3939        | 6101-4220            | 64-15-6978        | 6160-6422            |
| 61-9114           | 6160-4111            | 64-01-3940        | 6101-0511            | 64-15-6989        | 6160-6021            |
| 61-9118           | 6160-3112            | 64-01-3947        | 6101-1019            | 64-15-6990        | 6160-5121            |
| 61-9119           | 6160-6422            | 64-01-4900        | 6101-4020            | 64-15-7004        | 6160-1012            |
| 61-9120           | 6160-4221            | 64-01-4901        | 6101-4010            | 64-15-7017        | 6160-1112            |
| 61-9121           | 6160-6215            | 64-01-4927        | 6101-1061            | 64-15-7020        | 6160-2111            |
| 61-9122           | 6160-6223            | 64-01-4935        | 6101-1061            | 64-15-7028        | 6160-1013            |
| 61-9124           | 6160-4123            | 64-01-4942        | 6101-1062            | 64-17-8912        | 6165-5012            |
| 61-9125           | 6160-1011            | 64-01-4950        | 6101-2719            | 64-17-8919        | 6165-4511            |
| 61-9126           | 6160-6511            | 64-01-4962        | 6101-1010            | 64-17-8945        | 6165-2711            |
| 61-9127           | 6160-1111            | 64-01-4967        | 6101-3010            | 64-19-29003       | 6166-3511            |
| 61-9129           | 6160-1012            | 64-01-4973        | 6101-1018            | 64-25-19012       | 6140-0012            |
| 61-9130           | 6160-1013            | 64-01-4979        | 6101-1015            | 64-25-19021       | 6143-1211            |
| 61-9131           | 6160-1112            | 64-01-4981        | 6101-1011            | 64-25-19055       | 6140-2511            |
| 61-9133           | 6160-6911            | 64-01-4990        | 6101-3510            | 64-25-19056       | 6140-0013            |
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| 61-9135           | 6160-6912            | 64-01-4991        | 6101-2715            | 64-25-19088       | 6140-1011            |
| 61-9140           | 6160-3111            | 64-01-4992        | 6101-1013            | 64-25-19090       | 6140-1811            |
| 61-9203           | 6165-5012            | 64-01-4994        | 6101-1011            | 64-25-19092       | 6140-1413            |
| 61-9205           | 6165-2711            | 64-01-4997        | 6101-3511            | 64-27-19014       | 6143-2021            |
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| 61-9302           | 6166-3511            | 64-01-5005        | 6101-1014            | 64-27-19036       | 6143-2511            |
| 61-9416           | 6170-1011            | 64-01-5007        | 6101-5020            | 64-27-19069       | 6143-2211            |
| 61-9417           | 6170-1012            | 64-01-5008        | 6101-2711            | 64-27-19097       | 6143-1411            |
|                   |                      | 64-01-5008        | 6101-2715            | 64-27-19100       | 6143-2521            |
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| <b>WHITE</b>      |                      |                   |                      |                   |                      |
| 31-2729717        | 6103-1111            | 64-01-5013        | 6101-1017            | 64-28-19005       | 6144-7521            |
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| <b>WILSON</b>     |                      |                   |                      |                   |                      |
| 63-01-3942        | 6101-0060            | 64-01-5028        | 6101-1411            | 64-29-19083       | 6146-1211            |
| 63-01-3955        | 6101-0061            | 64-02-5900        | 6102-4510            |                   |                      |
| 63-01-3959        | 6101-0011            | 64-02-5904        | 6102-4510            |                   |                      |
| 63-01-3964        | 6101-0011            | 64-02-5911        | 6102-4011            |                   |                      |
| 63-01-3967        | 6101-0060            | 64-02-5912        | 6102-4012            |                   |                      |



# CROSS REFERENCE-ARMATURES

| Reference Numbers | Signet Sales Numbers | Reference Numbers | Signet Sales Numbers | Reference Numbers | Signet Sales Numbers |
|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| <b>YANMAR</b>     |                      |                   |                      |                   |                      |
| 114381-77110      | 6140-0011            |                   |                      |                   |                      |
| 129400-77400      | 6140-2011            |                   |                      |                   |                      |
| X028200-153_      | 6146-1011            |                   |                      |                   |                      |
| X028200-214_      | 6146-2011            |                   |                      |                   |                      |
| X028200-232_      | 6146-1410            |                   |                      |                   |                      |
| X028200-505_      | 6146-1021            |                   |                      |                   |                      |
| X2114-21111       | 6140-1413            |                   |                      |                   |                      |
| X2114-61104       | 6140-0010            |                   |                      |                   |                      |
| X2114-91001       | 6140-0013            |                   |                      |                   |                      |
| X2120-7100        | 6140-0012            |                   |                      |                   |                      |
| X2130-11001       | 6140-2511            |                   |                      |                   |                      |
| X2250-21001       | 6140-2521            |                   |                      |                   |                      |

## BOSCH



### 6160-1011

Type: 12V, 108 Series  
 Replaces: 1-004-011-020, -024, -032, -034, -051, -070  
 Shaft Length: 138mm Splines: 11  
 Shaft Dia: D.E. 7.9mm C.E. 9.9mm  
 Body Dia: 55mm Comm. Bars: 28



### 6160-1012

Type: 12V, 107 Series  
 Replaces: 1-004-011-042, -062, -068, -086  
 Shaft Length: 123mm Splines: 11  
 Shaft Dia: D.E. 7.9mm C.E. 9.9mm  
 Body Dia: 55mm Comm. Bars: 28



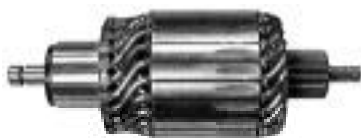
### 6160-1013

Type: 12V, 107 Series  
 Replaces: 1-004-011-058  
 Shaft Length: 123mm Splines: 9  
 Shaft Dia: D.E. 7.9mm C.E. 9.9mm  
 Body Dia: 55mm Comm. Bars: 29



### 6160-1111

Type: 12V, 110 Series  
 Replaces: 1-004-011-030, -037, -048  
 Shaft Length: 163mm Splines: 18  
 Shaft Dia: D.E. 7.9mm C.E. 9.9mm  
 Body Dia: 59mm Comm. Bars: 23



### 6160-1112

Type: 12V, 110 Series  
 Replaces: 1-004-011-022, -031, -036, -053  
 Shaft Length: 163mm Splines: 15  
 Shaft Dia: D.E. 7.9mm C.E. 9.9mm  
 Body Dia: 59mm Comm. Bars: 23



### 6160-2111





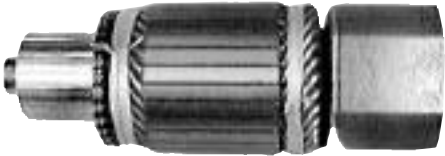
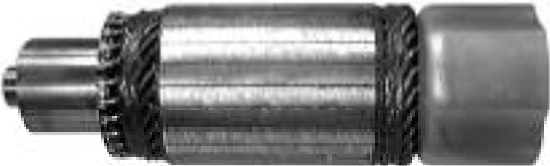
Type: 12V, 218 Series  
 Replaces: 1-004-012-450, 9-003-334-029  
 Shaft Length: 158mm Splines: 18  
 Shaft Dia: D.E. 7.9mm C.E. 9.9mm  
 Body Dia: 50mm Comm. Bars: 13

2



# BUYER'S GUIDE - ARMATURES

## BOSCH

|   |   |
|---|---|
|    | <p><b>6160-2112</b></p> <p>Type: 12V, 218 Series<br/>Replaces: 9-003-334-031, 9-003-334-032</p> <p>Shaft Length: 152mm Splines: 15<br/>Shaft Dia: D.E. 7.9mm C.E. 9.9mm<br/>Body Dia: 50mm Comm. Bars: 13</p>                       |
|    | <p><b>6160-3111</b></p> <p>Type: 12V, 311 Series<br/>Replaces: 1-004-003-134, -143, -901</p> <p>Shaft Length: 253mm Splines: 10<br/>Shaft Dia: D.E. 11.9mm C.E. 12.4mm<br/>Body Dia: 65mm Comm. Bars: 33</p>                        |
|    | <p><b>6160-3112</b></p> <p>Type: 12V, 313, 314 Series<br/>Replaces: 1-004-003-130, -133, -138, -142, -148, -912</p> <p>Shaft Length: 263mm Splines: 10<br/>Shaft Dia: D.E. 11.9mm C.E. 12.4mm<br/>Body Dia: 65mm Comm. Bars: 27</p> |
|  | <p><b>6160-3113</b></p> <p>Type: 12V, 317 Series<br/>Replaces: 1-004-003-150</p> <p>Shaft Length: 263mm Splines: 10<br/>Shaft Dia: D.E. 12mm C.E. 12.5mm<br/>Body Dia: 65mm Comm. Bars: 23</p>                                      |
|  | <p><b>6160-4111</b></p> <p>Type: 12V, 413, 418 Series<br/>Replaces: 2-004-005-026, -155</p> <p>Shaft Length: 235mm Splines: 0<br/>Shaft Dia: D.E. 0mm C.E. 22mm<br/>Body Dia: 83mm Comm. Bars: 29</p>                               |
|  | <p><b>6160-4121</b></p> <p>Type: 24V, 410, 411, 417 Series<br/>Replaces: 2-004-005-025, -071, -151</p> <p>Shaft Length: 270mm Splines: 0<br/>Shaft Dia: D.E. 0mm C.E. 22mm<br/>Body Dia: 83mm Comm. Bars: 23</p>                    |

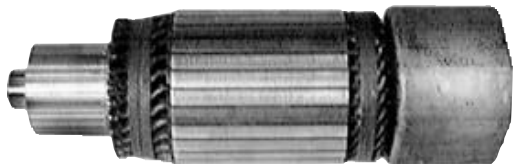
## BOSCH



### 6160-4122

Type: 24V, 414, 415, 416 Series  
Replaces: 2-004-005-022, -153

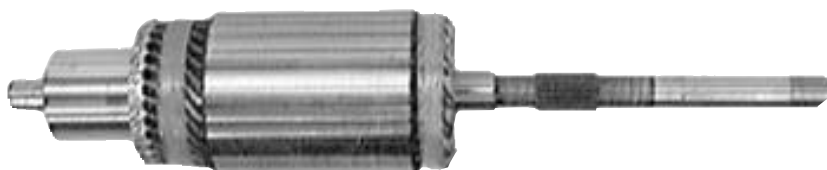
Shaft Length: 235mm Splines: 0  
Shaft Dia: D.E. 0mm C.E. 22mm  
Body Dia: 83mm Comm. Bars: 29



### 6160-4123

Type: 24V, 417 Series  
Replaces: 2-004-005-023

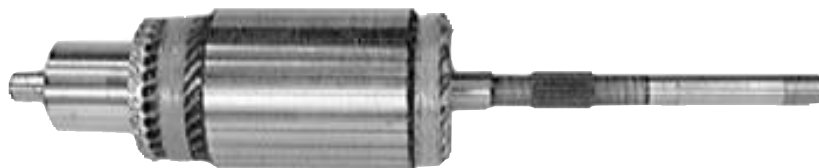
Shaft Length: 256mm Splines: 0  
Shaft Dia: D.E. 0mm C.E. 22mm  
Body Dia: 83mm Comm. Bars: 29



### 6160-4211

Type: 12V, 421 Series  
Replaces: 2-004-005-005,  
2-007-010-058, -065, -067

Shaft Length: 430mm Splines: 19  
Shaft Dia: D.E. 18mm C.E. 18mm  
Body Dia: 85mm Comm. Bars: 29



### 6160-4221

Type: 24V, 420 Series  
Replaces: 2-004-005-003,  
2-007-010-059, -061

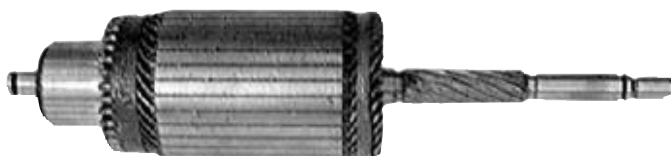
Shaft Length: 430mm Splines: 19  
Shaft Dia: D.E. 18mm C.E. 18mm  
Body Dia: 85mm Comm. Bars: 29



### 6160-5121

Type: 24V, 510 Series  
Replaces: 2-004-006-101

Shaft Length: 312mm Splines: 0  
Shaft Dia: D.E. 0mm C.E. 25mm  
Body Dia: 100mm Comm. Bars: 38

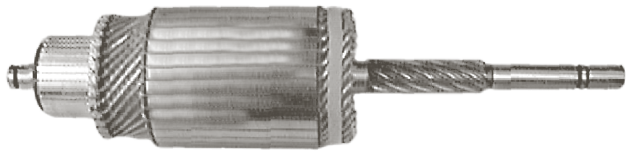
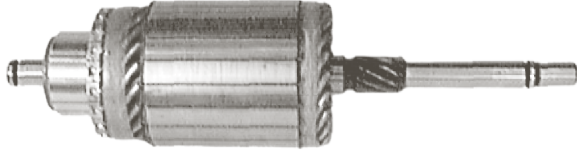
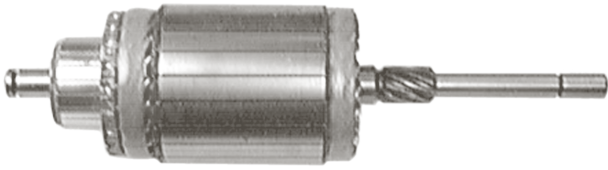
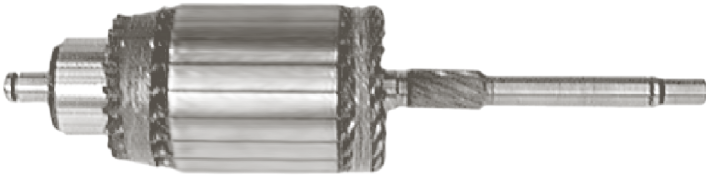
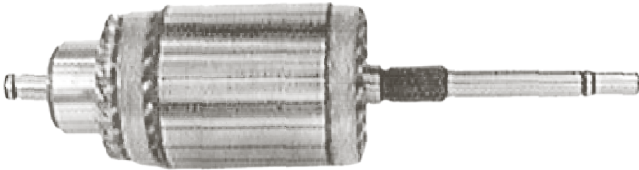
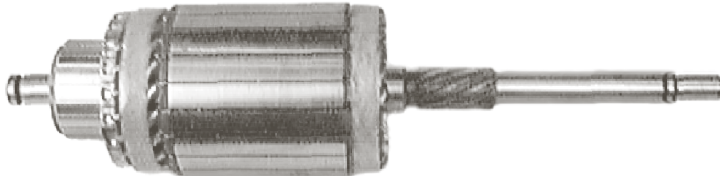


### 6160-5911

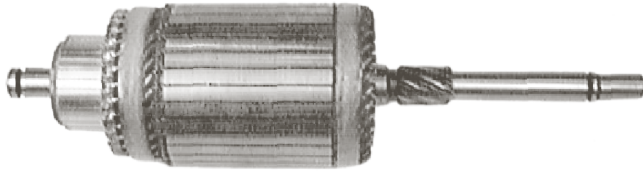
Type: 12V, 359 Series  
Replaces: 2-004-004-061, -112

Shaft Length: 335mm Splines: 10  
Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
Body Dia: 75mm Comm. Bars: 33

## BOSCH

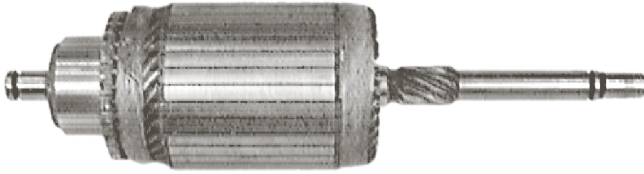
|   |   |
|---|---|
|    | <p><b>6160-6021</b></p> <p>Type: 24V, 360 Series<br/>Replaces: 2-004-004-062, -111</p> <p>Shaft Length: 335mm Splines: 10<br/>Shaft Dia: D.E. 12.5mm C.E. 13.9mm<br/>Body Dia: 75mm Comm. Bars: 33</p>                      |
|    | <p><b>6160-6213</b></p> <p>Type: 12V, 362 Series<br/>Replaces: 2-004-004-074, -092, 2-004-014-952</p> <p>Shaft Length: 292mm Splines: 10<br/>Shaft Dia: D.E. 12.5mm C.E. 13.9mm<br/>Body Dia: 75mm Comm. Bars: 21</p>       |
|   | <p><b>6160-6214</b></p> <p>Type: 12V, 362 Series<br/>Replaces: 2-004-004-075, -090, 2-004-014-951</p> <p>Shaft Length: 292mm Splines: 10<br/>Shaft Dia: D.E. 12.5mm C.E. 13.9mm<br/>Body Dia: 75mm Comm. Bars: 21</p>       |
|  | <p><b>6160-6215</b></p> <p>Type: 12V, 362 Series<br/>Replaces: 2-004-004-091, -094, -096, 2-004-014-953</p> <p>Shaft Length: 288mm Splines: 10<br/>Shaft Dia: D.E. 12.5mm C.E. 13.9mm<br/>Body Dia: 75mm Comm. Bars: 21</p> |
|  | <p><b>6160-6216</b></p> <p>Type: 12V, CCW, 362 Series<br/>Replaces: 2-004-004-078, 2-004-014-955</p> <p>Shaft Length: 292mm Splines: 10<br/>Shaft Dia: D.E. 12.5mm C.E. 13.9mm<br/>Body Dia: 75mm Comm. Bars: 21</p>        |
|  | <p><b>6160-6217</b></p> <p>Type: 12V, CCW, 362 Series<br/>Replaces: 2-004-004-077</p> <p>Shaft Length: 313mm Splines: 10<br/>Shaft Dia: D.E. 12.5mm C.E. 13.9mm<br/>Body Dia: 75mm Comm. Bars: 21</p>                       |

## BOSCH



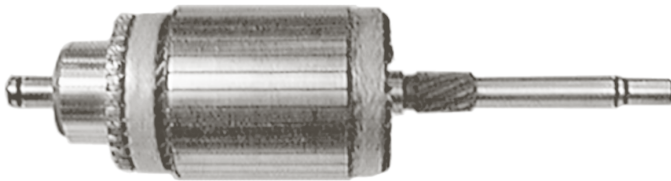
### 6160-6223

Type: 24V, 363 Series  
 Replaces: 2-004-004-116, -118  
 2-004-014-972  
 Shaft Length: 292mm Splines: 10  
 Shaft Dia: D.E. 132.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 33



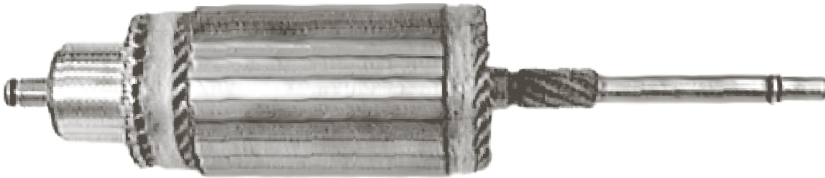
### 6160-6225

Type: 24V, 363 Series  
 Replaces: 0-950-000-000, 2-004-004-120  
 2-004-014-973  
 Shaft Length: 313mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 33



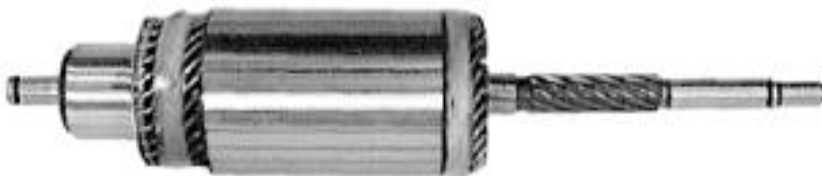
### 6160-6226

Type: 24V, CCW, 363 Series  
 Replaces: 2-004-004-117, 2-004-014-974  
 Shaft Length: 292mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 33



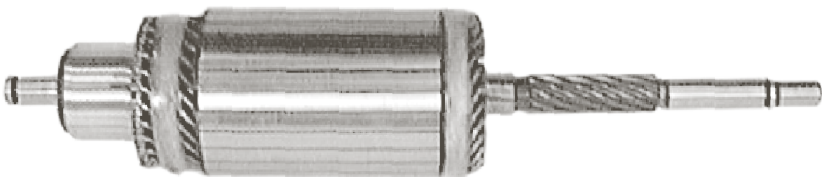
### 6160-6421

Type: 24V, 364 Series  
 Replaces: 2-004-004-100, -925  
 Shaft Length: 356mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 27



### 6160-6422

Type: 24V, 364 Series  
 Replaces: 2-004-004-115  
 Shaft Length: 365mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 27



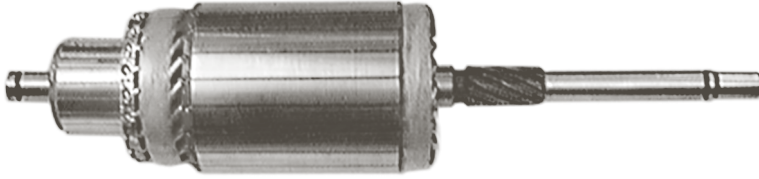
### 6160-6511

Type: 12V, 365 Series  
 Replaces: 2-004-004-105  
 Shaft Length: 365mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 27



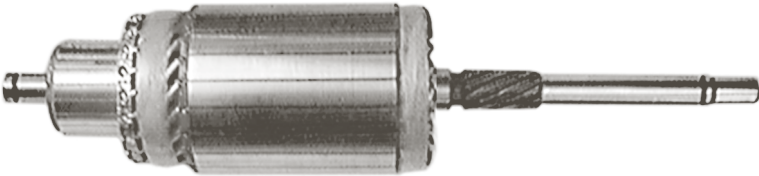
# BUYER'S GUIDE - ARMATURES

## BOSCH



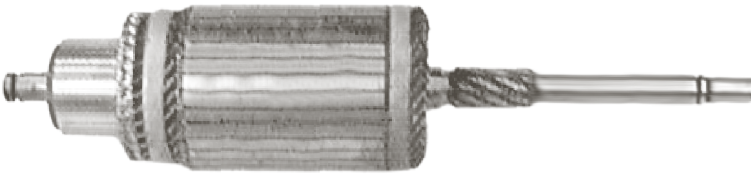
### 6160-6711

Type: 12V, 367 Series  
 Replaces: 2-004-004-003, -006, -007,  
 2-004-014-060, -960  
 Shaft Length: 338mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 21



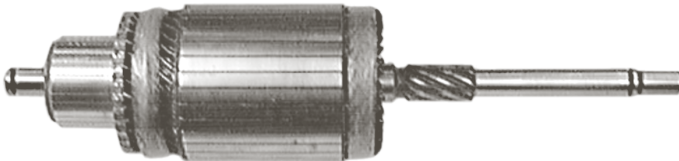
### 6160-6712

Type: 12V, CCW, 367 Series  
 Replaces: 2-004-014-062, -962  
 Shaft Length: 338mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 21



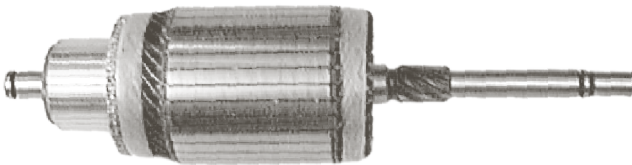
### 6160-6721

Type: 24V, 368 Series  
 Replaces: 2-004-004-033, -036, -038,  
 2-004-014-075, -076, -077, 2-004-014-975  
 Shaft Length: 338mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 33



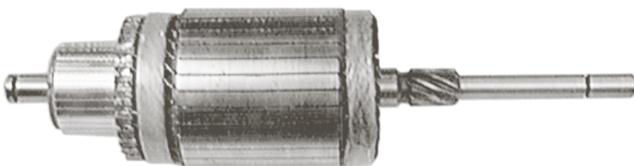
### 6160-6911

Type: 12V, 369 Series  
 Replaces: 2-004-004-037,  
 2-004-014-065, -965  
 Shaft Length: 323mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 33



### 6160-6912

Type: 12V, 369 Series  
 Replaces: 2-004-004-055, 2-004-014-067,  
 2-004-014-967  
 Shaft Length: 302mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 33



### 6160-6913

Type: 12V, 369 Series  
 Replaces: 2-004-004-039  
 Shaft Length: 298mm Splines: 10  
 Shaft Dia: D.E. 12.5mm C.E. 13.9mm  
 Body Dia: 75mm Comm. Bars: 33

# CHRYSLER



**6103-1111**

Type: 12V, 1.5hp (1.1kW), OSGR  
 Replaces: 2095094, 2098496, 2642072,  
 3656552, 3755313, 3755665, 3837325  
 Shaft Length: 180mm Splines: 10  
 Shaft Dia: D.E. 18.6mm C.E. 11.9mm  
 Body Dia: 74mm Comm. Bars: 27



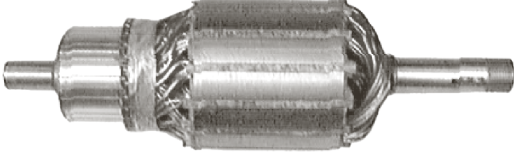

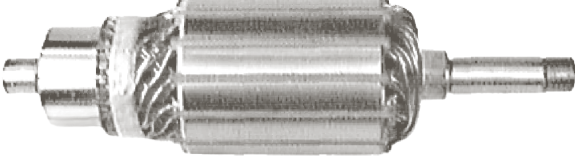
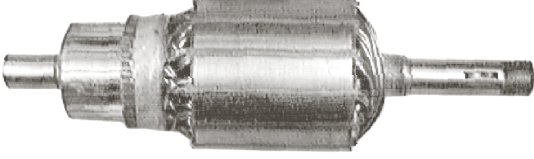
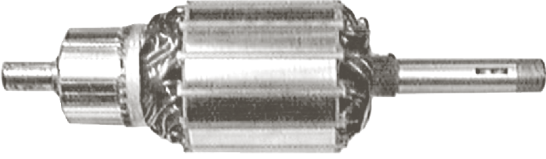
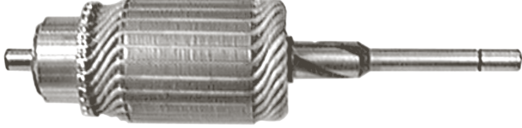
**6103-1311**

Type: 12V, 1.8hp (1.3kW), OSGR  
 Replaces: 3755761, 3837334  
 Shaft Length: 196mm Splines: 17  
 Shaft Dia: D.E. 18.6mm C.E. 11.9mm  
 Body Dia: 74mm Comm. Bars: 27

2



## DELCO

|   |  |
|---|--|
|                                    | <p><b>6101-0011</b></p> <p>Type: 12V, Generator<br/> Replaces: 1813417, 1838448, 1853593, 1854856, 1866789, 1871826, 1917164, 864, 1921351, 1925348, 1929558, 1957093<br/> Shaft Length: 239mm Splines: 0<br/> Shaft Dia: D.E. 17mm C.E. 14mm<br/> Body Dia: 70mm Comm. Bars: 28</p> |
|                                    | <p><b>6101-0012</b></p> <p>Type: 12V, Generator<br/> Replaces: 1932746, 1962056</p> <p>Shaft Length: 235mm Splines: 0<br/> Shaft Dia: D.E. 17mm C.E. 14mm<br/> Body Dia: 70mm Comm. Bars: 28</p>   |
|                                   | <p><b>6101-0013</b></p> <p>Type: 12V, Generator<br/> Replaces: 1939904, 800306</p> <p>Shaft Length: 264mm Splines: 0<br/> Shaft Dia: D.E. 14mm C.E. 14mm<br/> Body Dia: 70mm Comm. Bars: 28</p>  |
|                                  | <p><b>6101-0060</b></p> <p>Type: 6V, Generator<br/> Replaces: 1841027, 1928952, 1935994, 1967252, 817221, 817807<br/> Shaft Length: 240mm Splines: 0<br/> Shaft Dia: D.E. 17mm C.E. 14mm<br/> Body Dia: 70mm Comm. Bars: 28</p>  |
|                                  | <p><b>6101-0061</b></p> <p>Type: 6V, Generator<br/> Replaces: 1913560</p> <p>Shaft Length: 252mm Splines: 0<br/> Shaft Dia: D.E. 17mm C.E. 14mm<br/> Body Dia: 70mm Comm. Bars: 28</p>   |
|  <p>5MT, SD200, SD205, SD210</p> | <p><b>6101-0510</b></p> <p>Type: 12V, 5MT, SD200, SD205, SD210<br/> Replaces: 10467325, 10467708, 10495931, 10497046, 10499097, 1985138<br/> Shaft Length: 255mm Splines: 3<br/> Shaft Dia: D.E. 11.9mm C.E. 11.9mm<br/> Body Dia: 62mm Comm. Bars: 27</p>                           |

## DELCO



5MT, SD210, SD260

### 6101-0511

Type: 12V, 5MT, SD210, SD260  
 Replaces: 10467582, 10471537, 10495881, 10499230  
 Shaft Length: 254mm Splines: 3  
 Shaft Dia: D.E. 11.1mm C.E. 11.1mm  
 Body Dia: 62mm Comm. Bars: 27



5MT

### 6101-0512

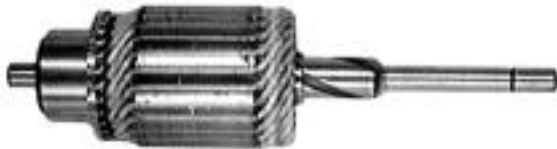
Type: 12V, 5MT  
 Replaces: 1893269  
 Shaft Length: 280mm Splines: 3  
 Shaft Dia: D.E. 11.7mm C.E. 14.2mm  
 Body Dia: 62mm Comm. Bars: 27



5MT

### 6101-0513

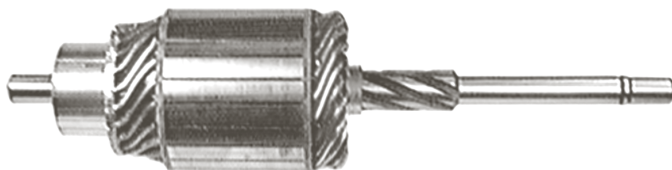
Type: 12V, 5MT  
 Replaces: 1893333  
 Shaft Length: 268mm Splines: 3  
 Shaft Dia: D.E. 11.7mm C.E. 14mm  
 Body Dia: 62mm Comm. Bars: 27



5MT

### 6101-0514

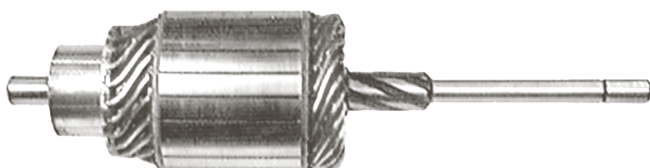
Type: 12V, 5MT  
 Replaces: 10456407, 10495958, 10499601, 1984504  
 Shaft Length: 240mm Splines: 3  
 Shaft Dia: D.E. 11.8mm C.E. 11.8mm  
 Body Dia: 62mm Comm. Bars: 27



10MT, SD300

### 6101-1010

Type: 12V, 10MT, SD300  
 Replaces: 1851550, 1891404, 1929404, 1975073  
 Shaft Length: 300mm Splines: 6  
 Shaft Dia: D.E. 12.5mm C.E. 14.2mm  
 Body Dia: 74mm Comm. Bars: 23



10MT, SD300

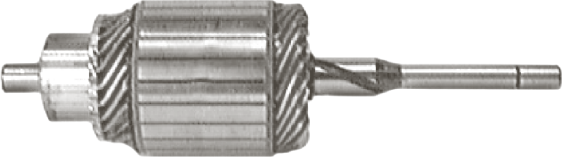
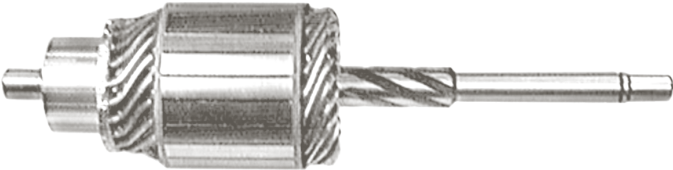
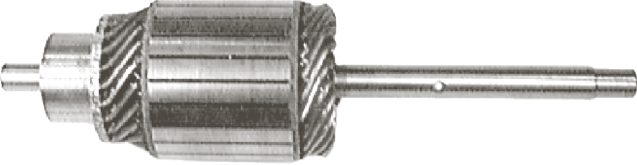
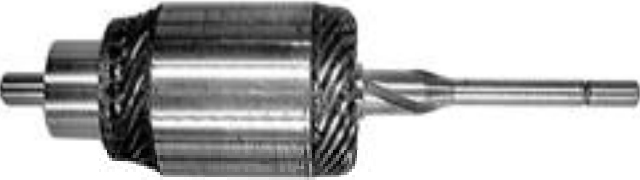


### 6101-1011

Type: 12V, 10MT, SD300  
 Replaces: 1932279, 1945688, 1954479, 1956941  
 Shaft Length: 294mm Splines: 6  
 Shaft Dia: D.E. 11.9mm C.E. 14.2mm  
 Body Dia: 74mm Comm. Bars: 23



# BUYER'S GUIDE - ARMATURES

## DELCO

|   |  |
|---|--|
|  <p>10MT, SD300</p>    | <p><b>6101-1012</b></p> <p>Type: 12V, 10MT, SD300<br/>Replaces: 10470773, 10498863, 1940624, 1965724, 1970548</p> <p>Shaft Length: 282mm Splines: 3<br/>Shaft Dia: D.E. 11.9mm C.E. 14.2mm<br/>Body Dia: 74mm Comm. Bars: 23</p> |
|  <p>10MT, SD300</p>    | <p><b>6101-1013</b></p> <p>Type: 12V, 10MT, SD300<br/>Replaces: 1949243</p> <p>Shaft Length: 300mm Splines: 6<br/>Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>Body Dia: 74mm Comm. Bars: 23</p>                                       |
|  <p>10MT, SD300</p>   | <p><b>6101-1014</b></p> <p>Type: 12V, 10MT, SD300<br/>Replaces: 1956211</p> <p>Shaft Length: 296mm Splines: 0<br/>Shaft Dia: D.E. 14.2mm C.E. 14.2mm<br/>Body Dia: 69mm Comm. Bars: 27</p>                                       |
|  <p>10MT, SD300</p>  | <p><b>6101-1015</b></p> <p>Type: 12V, 10MT<br/>Replaces: 1941888</p> <p>Shaft Length: 270mm Splines: 3<br/>Shaft Dia: D.E. 11.7mm C.E. 14.2mm<br/>Body Dia: 74mm Comm. Bars: 23</p>  |
|  <p>10MT, SD300</p>  | <p><b>6101-1016</b></p> <p>Type: 12V, 10MT, SD300<br/>Replaces: 1950307, 1950307</p> <p>Shaft Length: 300mm Splines: 6<br/>Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>Body Dia: 69mm Comm. Bars: 27</p>                              |
|  <p>10MT, SD300</p> | <p><b>6101-1017</b></p> <p>Type: 12V, CCW, 10MT, SD300<br/>Replaces: 1947353</p> <p>Shaft Length: 300mm Splines: 6<br/>Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>Body Dia: 74mm Comm. Bars: 23</p>                                  |

## DELCO



10MT

### 6101-1018

Type: 12V, 10MT  
Replaces: 1852860, 1935851

Shaft Length: 296mm Splines: 6  
Shaft Dia: D.E. 11.7mm C.E. 14.2mm  
Body Dia: 68mm Comm. Bars: 27

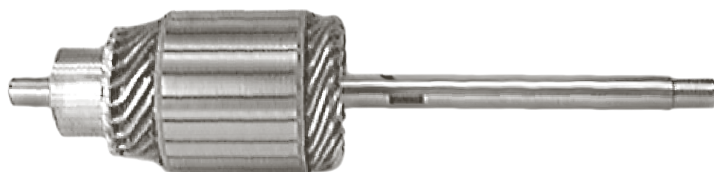


10MT

### 6101-1019

Type: 12V, 10MT  
Replaces: 1938178, 1954448, 1958949

Shaft Length: 300mm Splines: 6  
Shaft Dia: D.E. 12.5mm C.E. 14.2mm  
Body Dia: 68mm Comm. Bars: 27

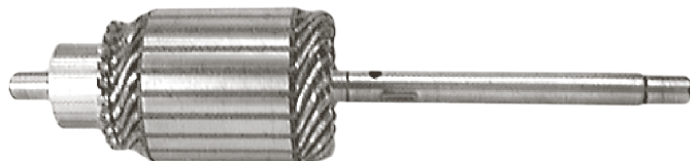


10MT

### 6101-1061

Type: 6V, 10MT  
Replaces: 1871662, 1871664, 1872450,  
1878077, 1910938, 1914228, 1961226,  
816163, 818002

Shaft Length: 331mm Splines: 0  
Shaft Dia: D.E. 13.9mm C.E. 14.2mm  
Body Dia: 70mm Comm. Bars: 23



10MT

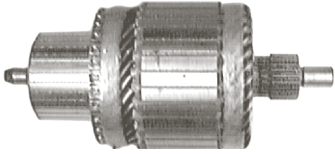

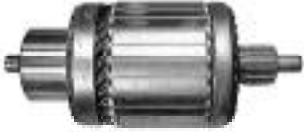
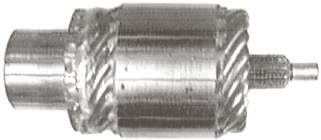
### 6101-1062

Type: 6V, CCW, 10MT  
Replaces: 1872505, 1873354, 1913936,  
1951251, 1961960

Shaft Length: 316mm Splines: 0  
Shaft Dia: D.E. 13.9mm C.E. 14.2mm  
Body Dia: 74mm Comm. Bars: 23


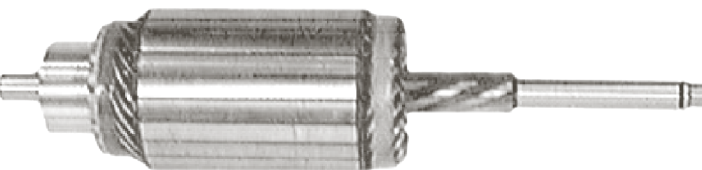
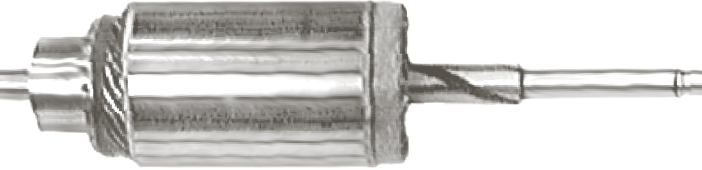
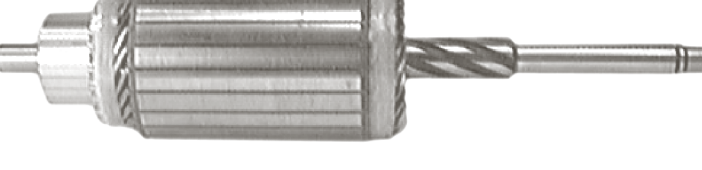
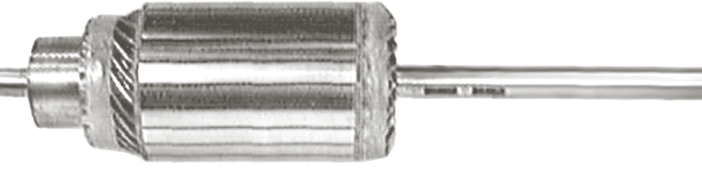

2

## DELCO

|   |   |
|---|---|
|  <p style="text-align: right;">PG200</p>           | <p><b>6101-1410</b></p> <p>Type: 12V, PG200<br/>Replaces: 10498530, 10498586</p> <p>Shaft Length: 140mm Splines: 24<br/>Shaft Dia: D.E. 9.5mm C.E. 8mm<br/>Body Dia: 63mm Comm. Bars: 32</p>        |
|  <p style="text-align: right;">PG200, PG250</p>    | <p><b>6101-1411</b></p> <p>Type: 12V, PG200, PG250<br/>Replaces: 10498616</p> <p>Shaft Length: 140mm Splines: 31<br/>Shaft Dia: D.E. 9.5mm C.E. 8mm<br/>Body Dia: 63mm Comm. Bars: 25</p>           |
|  <p style="text-align: right;">PG150, PG260F1</p> | <p><b>6101-1412</b></p> <p>Type: 12V, PG150, PG260F1<br/>Replaces: 10475990, 10487126</p> <p>Shaft Length: 128mm Splines: 16<br/>Shaft Dia: D.E. 8mm C.E. 8mm<br/>Body Dia: 54mm Comm. Bars: 28</p> |
|  <p style="text-align: right;">PG260M</p>        | <p><b>6101-1711</b></p> <p>Type: 12V, PG260M<br/>Replaces: 10475588</p> <p>Shaft Length: 121mm Splines: 12<br/>Shaft Dia: D.E. 8mm C.E. 9.8mm<br/>Body Dia: 53mm Comm. Bars: 21</p>                 |

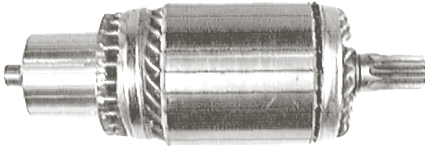

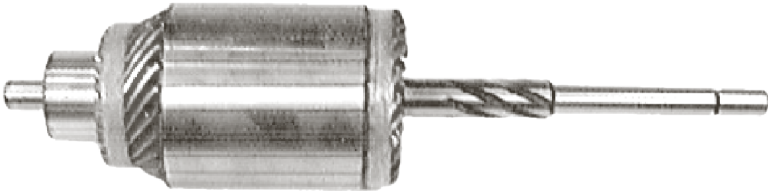

## DELCO

2

|  |   |
|--|---|
|  <p style="text-align: right;">20-27MT</p>   | <p><b>6101-2711</b></p> <p>Type: 12V, 20-27MT<br/>                 Replaces: 1846614, 1876366, 1891916, 1960866, 1965866<br/>                 Shaft Length: 335mm Splines: 6<br/>                 Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>                 Body Dia: 74mm Comm. Bars: 23</p> |
|  <p style="text-align: right;">20-27MT</p>   | <p><b>6101-2712</b></p> <p>Type: 12V, CCW, 20-27MT<br/>                 Replaces: 1961703, 830800</p> <p>Shaft Length: 335mm Splines: 6<br/>                 Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>                 Body Dia: 74mm Comm. Bars: 23</p>                                      |
|  <p style="text-align: right;">20-27MT</p>  | <p><b>6101-2713</b></p> <p>Type: 12V, 20-27MT<br/>                 Replaces: 1893449, 1974786</p> <p>Shaft Length: 325mm Splines: 3<br/>                 Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>                 Body Dia: 74mm Comm. Bars: 23</p>  |
|  <p style="text-align: right;">20-27MT</p> | <p><b>6101-2715</b></p> <p>Type: 12/24V, 20-27MT<br/>                 Replaces: 1930812, 1949190, 1950417, 1956918<br/>                 Shaft Length: 335mm Splines: 6<br/>                 Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>                 Body Dia: 74mm Comm. Bars: 23</p>       |
|    | <p><b>6101-2719</b></p> <p>Type: 12V<br/>                 Replaces: 1852918, 1907785, 1917785</p> <p>Shaft Length: 381mm Splines: 0<br/>                 Shaft Dia: D.E. 14.2mm C.E. 14.2mm<br/>                 Body Dia: 74mm Comm. Bars: 23</p>  |
|    | <p><b>6101-2722</b></p> <p>Type: 24V, 20-27MT<br/>                 Replaces: 1986471</p> <p>Shaft Length: 325mm Splines: 3<br/>                 Shaft Dia: D.E. 12.5mm C.E. 14.2mm<br/>                 Body Dia: 74mm Comm. Bars: 23</p>   |



## DELCO

|   |  |
|---|--|
|  <p style="text-align: right;">28MT</p>    | <p><b>6101-2810</b></p> <p>Type: 12V, 28MT<br/>Replaces: 10456466</p> <p>Shaft Length: 177mm Splines: 8<br/>Shaft Dia: D.E. 17mm C.E. 10mm<br/>Body Dia: 60mm Comm. Bars: 23</p>   |
|  <p style="text-align: right;">28MT</p>    | <p><b>6101-2821</b></p> <p>Type: 24V, 28MT<br/>Replaces: 10457117</p> <p>Shaft Length: 177mm Splines: 8<br/>Shaft Dia: D.E. 17mm C.E. 10mm<br/>Body Dia: 60mm Comm. Bars: 23</p>   |
|  <p style="text-align: right;">30MT</p> | <p><b>6101-3010</b><br/>Riser design molded comm.</p> <p><b>6101-30100</b><br/>Riserless design steel core comm.</p> <p>Type: 12-24V, 30MT<br/>Replaces: 1932872, 1935259, 1942244, 1967042</p> <p>Shaft Length: 356mm Splines: 6<br/>Shaft Dia: D.E. 14.2mm C.E. 14.2mm<br/>Body Dia: 85mm Comm. Bars: 25</p> |
|  <p style="text-align: right;">30MT</p>  | <p><b>6101-3012</b><br/>Riser design molded comm.</p> <p><b>6101-30120</b><br/>Riserless design steel core comm.</p> <p>Type: 12V, CCW, 30MT<br/>Replaces: 1942881, 1956903</p> <p>Shaft Length: 356mm Splines: 6<br/>Shaft Dia: D.E. 14.2mm C.E. 14.2mm<br/>Body Dia: 85mm Comm. Bars: 25</p>                 |

## DELCO

2



35MT

**6101-3510**

Riser design molded comm.

**6101-35100**

Riserless design steel core comm.

Type: 12V, 35MT

Replaces: 1946391, 1948999, 1961754, 1967045

Shaft Length: 394mm Splines: 3  
 Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 25



35MT

**6101-3511**

Riser design molded comm.

**6101-35110**

Riserless design steel core comm.

Type: 12V, 35MT

Replaces: 1946942, 1967046

Shaft Length: 431mm Splines: 19  
 Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 25



35MT

**6101-3512**

Riser design molded comm.

**6101-35120**

Riserless design steel core comm.

Type: 12V, 35MT

Replaces: 1851961

Shaft Length: 403mm Splines: 3  
 Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 25



## DELCO



35MT

### 6101-3513

Riser design molded comm.

### 6101-35130

Riserless design steel core comm.

Type: 12V, CCW, 35MT

Replaces: 1852981

Shaft Length: 403mm Splines: 6  
Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
Body Dia: 85mm Comm. Bars: 25



35MT

### 6101-3516

Riser design molded comm.

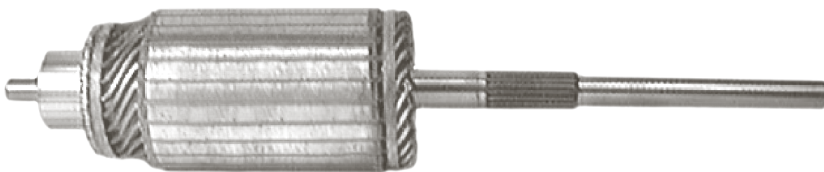
### 6101-35160

Riserless design steel core comm.

Type: 12V, CCW, 35MT

Replaces: 1959458

Shaft Length: 394mm Splines: 6  
Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
Body Dia: 85mm Comm. Bars: 25



35MT

### 6101-3521

Riser design molded comm.

### 6101-35210

Riserless design steel core comm.

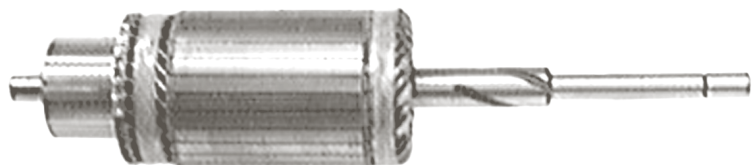
Type: 24V, 35MT

Replaces: 1948464, 1948600, 1949112,  
1967044, 1967295

Shaft Length: 431mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
Body Dia: 85mm Comm. Bars: 25

## DELCO

2



37MT

**6101-3710**

Riser design molded comm.

**6101-37100**

Riserless design steel core comm.

Type: 12V, 37MT

Replaces: 1985249

Shaft Length: 391mm Splines: 3  
 Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 29



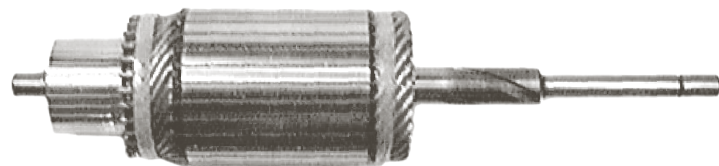
37MT

**6101-3719**

Type: 12V, CCW, 37MT

Replaces: 1986374

Shaft Length: 391mm Splines: 3  
 Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 29



37MT

**6101-3720**

Riser design molded comm.

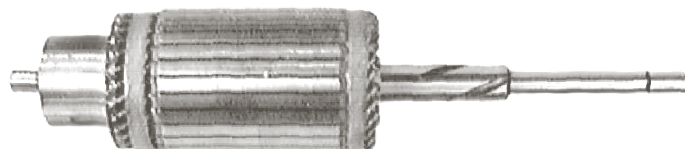
**6101-37200**

Riserless design steel core comm.

Type: 24V, 37MT

Replaces: 1988322

Shaft Length: 391mm Splines: 3  
 Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 29



37MT

**6101-3721**

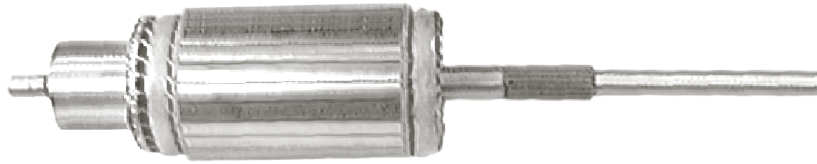
Type: 24V, CCW, 37MT

Replaces: 1989849

Shaft Length: 391mm Splines: 3  
 Shaft Dia: D.E. 14.2mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 29



## DELCO



40MT

### 6101-4010

Riser design molded comm.

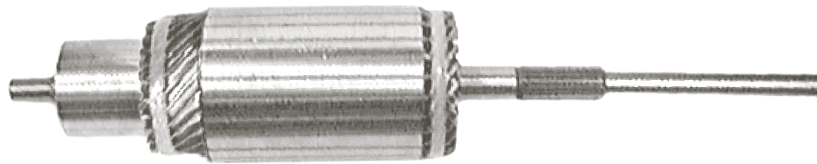
### 6101-40100

Riserless design steel core comm.

Type: 12V, 40MT

Replaces: 1961320

Shaft Length: 467mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
Body Dia: 85mm Comm. Bars: 25



40MT

### 6101-4020

Riser design molded comm.

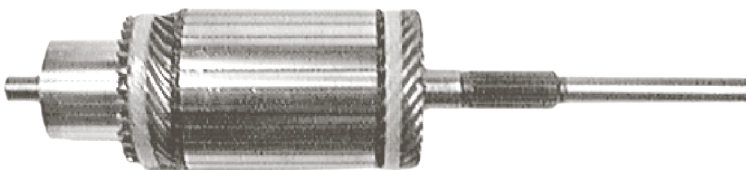
### 6101-40200

Riserless design steel core comm.

Type: 24V, 40MT

Replaces: 1945500, 1948508

Shaft Length: 467mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
Body Dia: 85mm Comm. Bars: 25



41MT

### 6101-4111

Riser design molded comm.

### 6101-41110

Riserless design steel core comm.

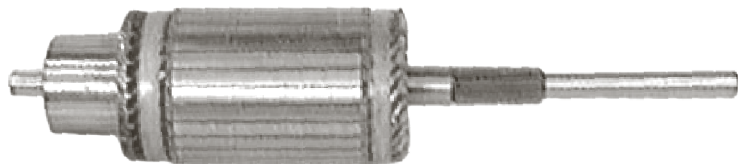
Type: 12V, 41MT

Replaces: 10473852

Shaft Length: 391mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
Body Dia: 85mm Comm. Bars: 29

## DELCO

2



41MT

**6101-4121**

Riser design molded comm.

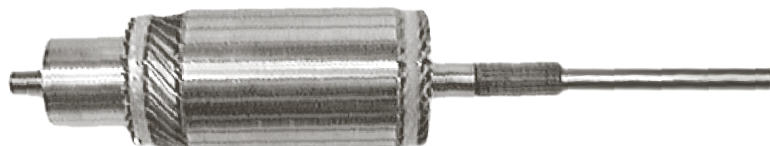
**6101-41210**

Riserless design steel core comm.

Type: 24V, 41MT

Replaces: 10472559

Shaft Length: 391mm Splines: 19  
 Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 29



42MT

**6101-4210**

Riser design molded comm.

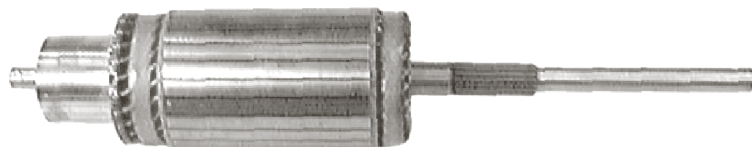
**6101-42100**

Riserless design steel core comm.

Type: 12V, 42MT

Replaces: 1987989

Shaft Length: 451mm Splines: 19  
 Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 25



42MT

**6101-4220**

Riser design molded comm.

**6101-42200**

Riserless design steel core comm.

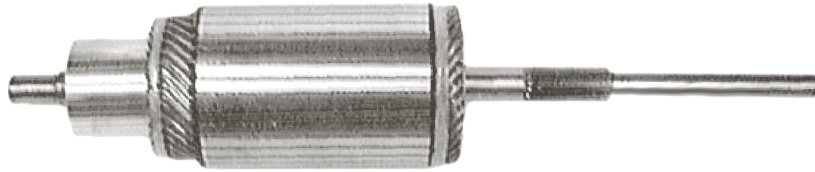
Type: 24V, 42MT

Replaces: 1988435

Shaft Length: 451mm Splines: 19  
 Shaft Dia: D.E. 15.9mm C.E. 14.2mm  
 Body Dia: 85mm Comm. Bars: 25



## DELCO



50MT

### 6101-5011

Riser design molded comm.

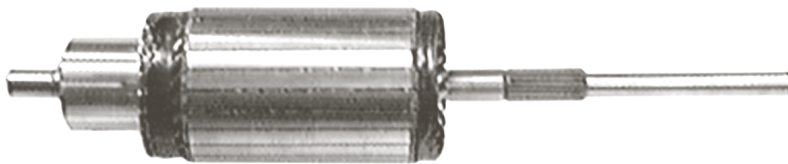
### 6101-50110

Riserless design steel core comm.

Type: 12V, 50MT

Replaces: 1977818

Shaft Length: 483mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 17.4mm  
Body Dia: 96mm Comm. Bars: 35



50MT

### 6101-5020

Riser design molded comm.

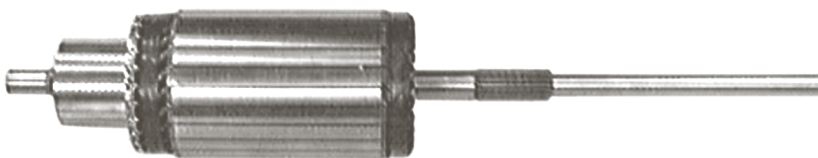
### 6101-50200

Riserless design steel core comm.

Type: 24V, 50MT

Replaces: 1945840

Shaft Length: 483mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 17.4mm  
Body Dia: 96mm Comm. Bars: 25



50MT

### 6101-5021

Riser design molded comm.

### 6101-50210

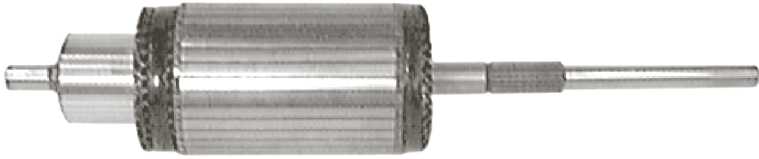
Riserless design steel core comm.

Type: 24V, 50MT

Replaces: 1951254

Shaft Length: 530mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 17.4mm  
Body Dia: 96mm Comm. Bars: 25

DELCO



50MT

**6101-5030**

Riser design molded comm.

**6101-50300**

Riserless design steel core comm.

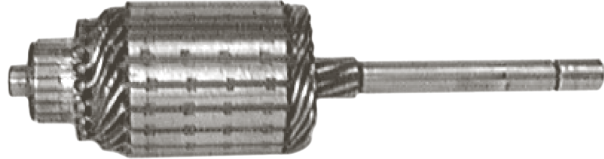
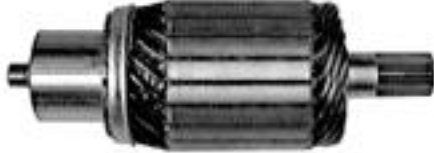
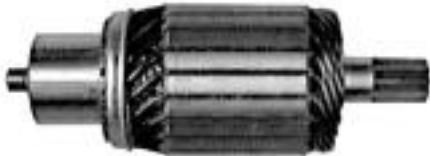

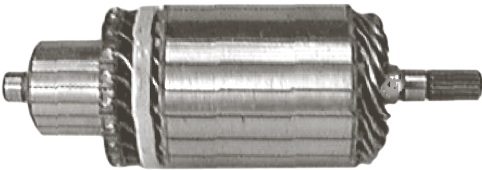
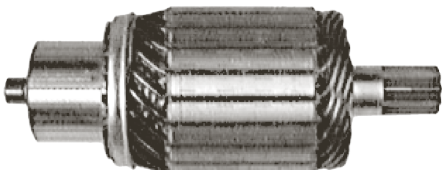
Type: 32-64V, 50MT

Replaces: 1945913, 1967349

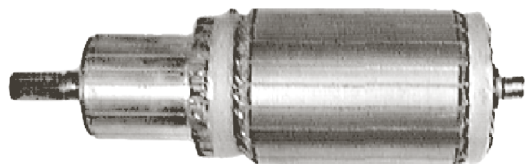
Shaft Length: 483mm Splines: 19  
Shaft Dia: D.E. 15.9mm C.E. 17.4mm  
Body Dia: 96mm Comm. Bars: 35

2

## DENSO

|   |   |
|---|---|
|    | <p><b>6146-0612</b></p> <p>Type: 12V, CCW, D/D 0.6kW<br/>           Replaces: Replaces: 028200-521_</p> <p>Shaft Length: 197mm Splines: 10<br/>           Shaft Dia: D.E. 11mm C.E. 11mm<br/>           Body Dia: 51mm Comm. Bars: 21</p> |
|    | <p><b>6146-1011</b></p> <p>Type: 12V, OSGR 1.0kW<br/>           Replaces: 028200-153_</p> <p>Shaft Length: 136mm Splines: 9<br/>           Shaft Dia: D.E. 15mm C.E. 8mm<br/>           Body Dia: 47mm Comm. Bars: 21</p>                 |
|   | <p><b>6146-1021</b></p> <p>Type: 24V, OSGR 1.4kW<br/>           Replaces: 028200-505_</p> <p>Shaft Length: 136mm Splines: 9<br/>           Shaft Dia: D.E. 15mm C.E. 8mm<br/>           Body Dia: 47mm Comm. Bars: 21</p>                 |
|  | <p><b>6146-1211</b></p> <p>Type: 12V, OSGR 1.2kW<br/>           Replaces: 028200-626_</p> <p>Shaft Length: 118mm Splines: 9<br/>           Shaft Dia: D.E. 15mm C.E. 8mm<br/>           Body Dia: 49mm Comm. Bars: 21</p>                 |
|  | <p><b>6146-1410</b></p> <p>Type: 12V, OSGR 1.4kW<br/>           Replaces: 028200-232_, 028200-537_</p> <p>Shaft Length: 148mm Splines: 19<br/>           Shaft Dia: D.E. 10mm C.E. 10mm<br/>           Body Dia: 50mm Comm. Bars: 21</p>  |
|  | <p><b>6146-1411</b></p> <p>Type: 12V, OSGR 1.4kW<br/>           Replaces: 028200-625_</p> <p>Shaft Length: 129mm Splines: 9<br/>           Shaft Dia: D.E. 15mm C.E. 8mm<br/>           Body Dia: 50mm Comm. Bars: 21</p>                 |

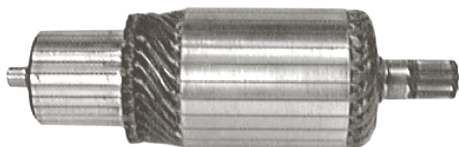
## DENSO



### 6146-2011

Type: 12V, OSGR 2.0kW  
Replaces: 028200-214\_

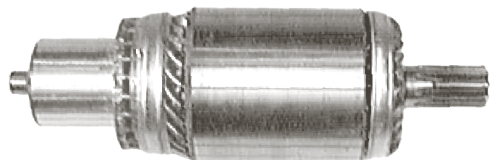
Shaft Length: 167mm Splines: 19  
Shaft Dia: D.E. 10mm C.E. 8mm  
Body Dia: 51mm Comm. Bars: 23



### 6146-2012

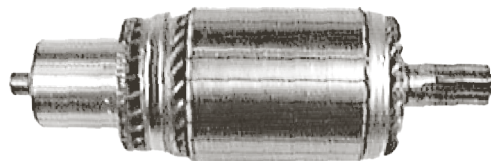
Type: 12V, OSGR 2.0kW  
Replaces: 028200-687\_

Shaft Length: 160mm Splines: 9  
Shaft Dia: D.E. 15mm C.E. 8mm  
Body Dia: 51mm Comm. Bars: 27



### 6146-2511

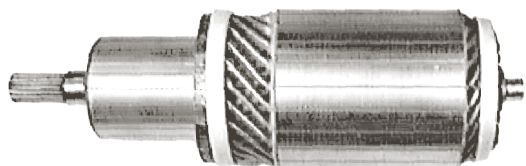
Type: 12V, OSGR 2.5kW  
Replaces: 028200-178\_, 028200-190\_,  
028200-620\_, 028200-622\_, 028200-623\_  
Shaft Length: 187mm Splines: 9  
Shaft Dia: D.E. 17mm C.E. 10mm  
Body Dia: 60mm Comm. Bars: 23



### 6146-2521

Type: 24V, OSGR 4.5kW  
Replaces: 028200-159\_, 028200-223\_

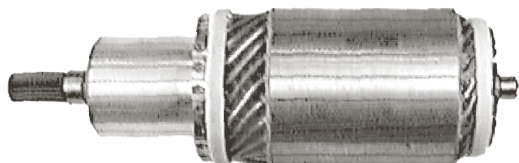
Shaft Length: 187mm Splines: 9  
Shaft Dia: D.E. 17mm C.E. 10mm  
Body Dia: 60mm Comm. Bars: 23



### 6146-3011

Type: 12V, OSGR 3.0kW  
Replaces: 028200-280\_

Shaft Length: 211mm Splines: 18  
Shaft Dia: D.E. 15mm C.E. 10mm  
Body Dia: 65mm Comm. Bars: 23

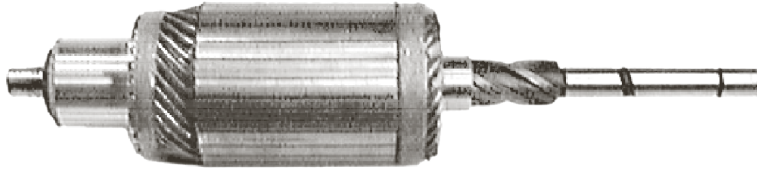


### 6146-3021

Type: 24V, OSGR 5.5kW, 7.5kW  
Replaces: 028200-525\_

Shaft Length: 211mm Splines: 18  
Shaft Dia: D.E. 15mm C.E. 10mm  
Body Dia: 65mm Comm. Bars: 23

## DENSO



**6146-4011**

Type: 12V, D/D 4.0kW  
Replaces: 028200-126\_

Shaft Length: 396mm Splines: 4  
Shaft Dia: D.E. 17mm C.E. 17mm  
Body Dia: 85mm Comm. Bars: 29



**6146-4012**

Type: 12V, D/D, 4.0kW  
Replaces: 028200-6040

Shaft Length: 375mm Splines: 18  
Shaft Dia: D.E. 16.9mm C.E. 16.9mm  
Body Dia: 89mm Comm. Bars: 29



**6146-4021**

Type: 24V, D/D, 7.5kW  
Replaces: 028200-181\_

Shaft Length: 402mm Splines: 4  
Shaft Dia: D.E. 17mm C.E. 17mm  
Body Dia: 85mm Comm. Bars: 29

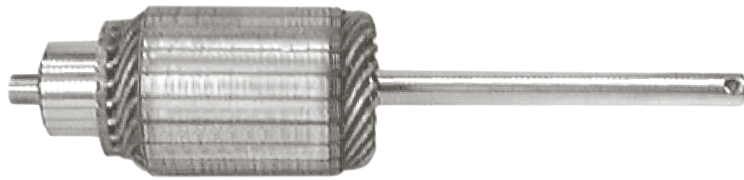


**6146-4022**

Type: 24V, D/D, 7.5kW  
Replaces: 028200-6300

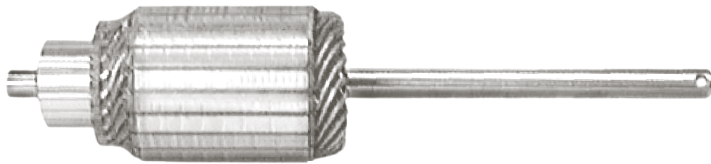
Shaft Length: 375mm Splines: 18  
Shaft Dia: D.E. 16.9mm C.E. 16.9mm  
Body Dia: 89mm Comm. Bars: 29

## FORD



**6102-0612**

Type: 12V, SHANK-TYPE  
 Replaces: B6A-11005-A, FAC-11005-B,  
 FAR-11005-A, FAS-11005-A  
 Shaft Length: 336mm Splines: 0  
 Shaft Dia: D.E. 15.9mm C.E. 15.9mm  
 Body Dia: 75mm Comm. Bars: 23



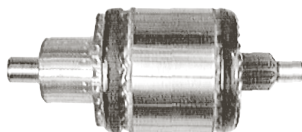
**6102-0613**

Type: 12V, SHANK-TYPE  
 Replaces: C2AF-11005-A, C2AF-11005-B,  
 C2AZ-11005, C2AZ-11005-A, C2AZ-11005-B  
 Shaft Length: 320mm Splines: 0  
 Shaft Dia: D.E. 15.9mm C.E. 15.9mm  
 Body Dia: 75mm Comm. Bars: 23



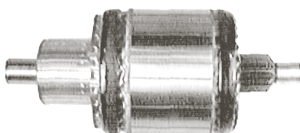
**6102-0711**

Type: 12V, OSGR  
 Replaces: E4EF-11005-AA, E4FZ-11005-A  
 Shaft Length: 170mm Splines: 9  
 Shaft Dia: D.E. 15.9mm C.E. 15.9mm  
 Body Dia: 56mm Comm. Bars: 25



**6102-0910**

Type: 12V, PMGR  
 Replaces: E9OF-11005-AA, E9OZ-11005-A,  
 F2TU-11005-DA, F2TZ-11005-A  
 Shaft Length: 129mm Splines: 11  
 Shaft Dia: D.E. 9.9mm C.E. 11.9mm  
 Body Dia: 56mm Comm. Bars: 25



**6102-0911**

Type: 12V, PMGR  
 Replaces: F81U-11005-A, F81U-11005-AA,  
 XL1U-11005-A  
 Shaft Length: 127mm Splines: 11  
 Shaft Dia: D.E. 9.9mm C.E. 11.9mm  
 Body Dia: 56mm Comm. Bars: 25

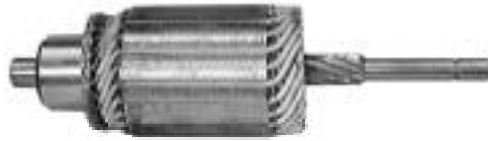


**6102-4010**

Type: 12V, 4" MOD I, II  
 Replaces: E1EF-11005-AA, E1FZ-11005-A  
 Shaft Length: 226mm Splines: 12  
 Shaft Dia: D.E. 11.9mm C.E. 15.9mm  
 Body Dia: 65mm Comm. Bars: 25

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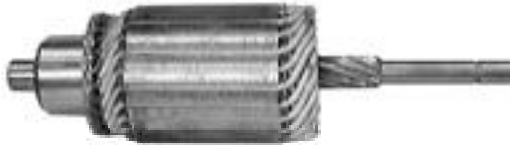
## FORD



### 6102-4011

Type: 12V, 4" MOD II  
 Replaces: E2BF-11005-AA, E2BZ-11005-A

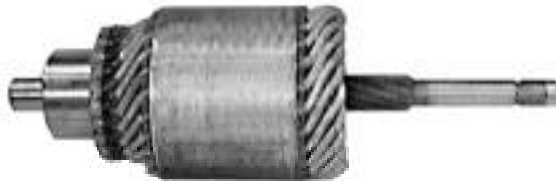
Shaft Length: 237mm Splines: 12  
 Shaft Dia: D.E. 11.9mm C.E. 15.9mm  
 Body Dia: 65mm Comm. Bars: 25



### 6102-4012

Type: 12V, 4" MOD II  
 Replaces: E2EF-11005-AA, E2FZ-11005-A,  
 E3EF-11005-AA, E3FZ-11005-A,  
 E4AF-11005-A, E4AF-11005-AA

Shaft Length: 228mm Splines: 12  
 Shaft Dia: D.E. 11.9mm C.E. 15.9mm  
 Body Dia: 65mm Comm. Bars: 25

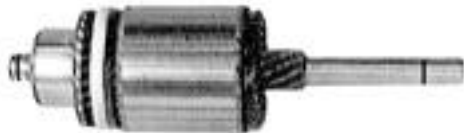


### 6102-4510

Type: 12V, 4-1/2" MOD I, II  
 Replaces: C6VY-11005, -A, C6VY-11005-B,  
 D0AZ-11005-A, D0OZ-11005-A, D0TZ-  
 11005-A, D5AZ-11005-A, D6TZ-11005-A,  
 D7AF-11005-A, D7AZ-11005-A

Shaft Length: 237mm Splines: 12  
 Shaft Dia: D.E. 11.9mm C.E. 15.9mm  
 Body Dia: 75mm Comm. Bars: 25

## HITACHI



### 6140-0010

Type: 12V, CCW, D/D, 0.8kW  
Replaces: 2114-61104

Shaft Length: 186mm Splines: 10  
Shaft Dia: D.E. 12mm C.E. 12mm  
Body Dia: 53mm Comm. Bars: 29



### 6140-0011

Type: 12V, PMDD, CCW, 0.8kW  
Replaces: 2114-11100

Shaft Length: 186mm Splines: 10  
Shaft Dia: D.E. 12mm C.E. 12mm  
Body Dia: 53mm Comm. Bars: 29



### 6140-0012

Type: 12V, D/D, 1.6kW, 1.8kW  
Replaces: 2120-6150, 2120-7100

Shaft Length: 280mm Splines: 12  
Shaft Dia: D.E. 14mm C.E. 15mm  
Body Dia: 76mm Comm. Bars: 29



### 6140-0013

Type: 12V, D/D, 1.2kW, 1.3kW  
Replaces: 2114-91001

Shaft Length: 205mm Splines: 10  
Shaft Dia: D.E. 12.5mm C.E. 12.5mm  
Body Dia: 65mm Comm. Bars: 33



### 6140-1011

Type: 12V, D/D, 1.0kW  
Replaces: 2114-61103

Shaft Length: 207mm Splines: 10  
Shaft Dia: D.E. 12.5mm C.E. 12.5mm  
Body Dia: 65mm Comm. Bars: 33









### 6140-1121

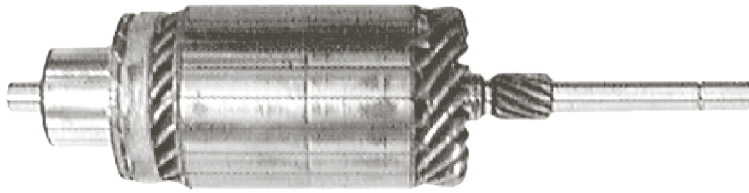
Type: 24V, OSGR, 11.0kW  
Replaces: 2210-31001

Shaft Length: 241mm Splines: 12  
Shaft Dia: D.E. 15mm C.E. 25mm  
Body Dia: 75mm Comm. Bars: 21

## HITACHI

|   |   |
|---|---|
|    | <p><b>6140-1411</b></p> <p>Type: 12V, PMGR, 1.2kW, 1.4kW<br/>Replaces: 2114-31109</p> <p>Shaft Length: 110mm Splines: 10<br/>Shaft Dia: D.E. 8mm C.E. 12mm<br/>Body Dia: 55mm Comm. Bars: 29</p>      |
|    | <p><b>6140-1412</b></p> <p>Type: 12V, PMGR, 1.2kW, 1.4kW<br/>Replaces: 2114-71105</p> <p>Shaft Length: 112mm Splines: 10<br/>Shaft Dia: D.E. 16mm C.E. 13mm<br/>Body Dia: 58mm Comm. Bars: 29</p>     |
|    | <p><b>6140-1413</b></p> <p>Type: 12V, PMGR, 1.4kW<br/>Replaces: 2114-21111</p> <p>Shaft Length: 110mm Splines: 8<br/>Shaft Dia: D.E. 7mm C.E. 12mm<br/>Body Dia: 50mm Comm. Bars: 29</p>              |
|  | <p><b>6140-1811</b></p> <p>Type: 12V, D/D, 1.8kW<br/>Replaces: 2120-4150</p> <p>Shaft Length: 274mm Splines: 12<br/>Shaft Dia: D.E. 14mm C.E. 14mm<br/>Body Dia: 77mm Comm. Bars: 29</p>              |
|  | <p><b>6140-2011</b></p> <p>Type: 12V, OSGR, 2.0kW<br/>Replaces: 2130-61003, 2130-91002</p> <p>Shaft Length: 188mm Splines: 11<br/>Shaft Dia: D.E. 17mm C.E. 8mm<br/>Body Dia: 53mm Comm. Bars: 27</p> |
|  | <p><b>6140-2012</b></p> <p>Type: 12V, OSGR, 2.0kW<br/>Replaces: Armature in: S13-289A</p> <p>Shaft Length: 180mm Splines: 11<br/>Shaft Dia: D.E. 17mm C.E. 8mm<br/>Body Dia: 55mm Comm. Bars: 27</p>  |

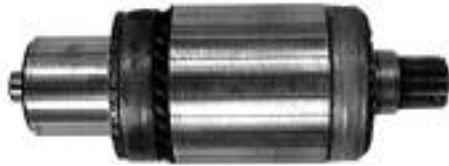
## HITACHI



**6140-2111**

Type: 12V, D/D, 2.1kW, 2.2kW  
Replaces: 2130-7100

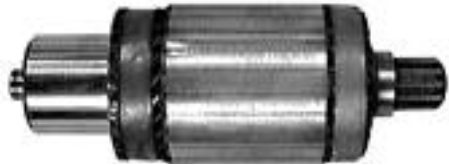
Shaft Length: 300mm Splines: 12  
Shaft Dia: D.E. 14mm C.E. 14mm  
Body Dia: 75mm, Comm. Bars: 21



**6140-2511**

Type: 12V, OSGR, 1.8kW, 1.9kW, 2.5kW  
Replaces: 2130-11001

Shaft Length: 165mm Splines: 11  
Shaft Dia: D.E. 25mm C.E. 12mm  
Body Dia: 60mm Comm. Bars: 28



**6140-2521**

Type: 24V, OSGR, 4.5kW  
Replaces: 2250-21001

Shaft Length: 165mm Splines: 11  
Shaft Dia: D.E. 25mm C.E. 12mm  
Body Dia: 60mm Comm. Bars: 28



LEECE NEVILLE



6107-4511

Type: 12V, D/D, 4500 Series  
Replaces: L1021, MXB2006

Shaft Length: 337mm Splines: 6  
Shaft Dia: D.E. 14.2mm C.E. 15.6mm  
Body Dia: 74mm Comm. Bars: 23

## LUCAS



**6165-2711**

Type: 12V, M127 Series  
 Replaces: 54268382, 54292376, TJB 111, TJB 114  
 Shaft Length: 303mm Splines: 3  
 Shaft Dia: D.E. 17mm C.E. 12.7mm  
 Body Dia: 75mm Comm. Bars: 23



**6165-4511**

Type: 12V, 2M113, M45G Series  
 Replaces: 54247379, 60600071, TIB 108, TJB 108  
 Shaft Length: 303mm Splines: 12  
 Shaft Dia: D.E. 17mm C.E. 12.7mm  
 Body Dia: 74mm Comm. Bars: 23

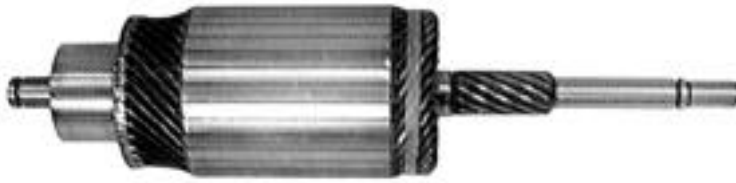


**6165-5012**

Type: 12V, M50 Series  
 Replaces: 54243590, TJB 103  
 Shaft Length: 303mm Splines: 12  
 Shaft Dia: D.E. 17mm C.E. 12.7mm  
 Body Dia: 84mm Comm. Bars: 21

2

## MARELLI



6166-3511

Type: 12V, D/D, 3.5kW

Replaces: 72386801

Shaft Length: 321mm Splines: 12

Shaft Dia: D.E. 12.4mm C.E. 14mm

Body Dia: 75mm Comm. Bars: 33

# MITSUBISHI



## 6143-1211

Type: 12V, OSGR, 1.2kW  
Replaces: M106X01271, M106X55071

Shaft Length: 140mm Splines: 9  
Shaft Dia: D.E. 15mm C.E. 8mm  
Body Dia: 54mm Comm. Bars: 21



## 6143-1411

Type: 12V, PMGR, 1.2kW, 1.4kW  
Replaces: M106X52171, M106X58571

Shaft Length: 122mm Splines: 11  
Shaft Dia: D.E. 10mm C.E. 10mm  
Body Dia: 54mm Comm. Bars: 29



## 6143-1412

Type: 12V, PMGR, 1.2kW, 1.4kW  
Replaces: M106X58671

Shaft Length: 114mm Splines: 9  
Shaft Dia: D.E. 8mm C.E. 10mm  
Body Dia: 54mm Comm. Bars: 29



## 6143-1711

Type: 12V, PG260F2, 1.7kW  
Replaces: M106X54271, 10492437

Shaft Length: 143mm Splines: 11  
Shaft Dia: D.E. 10mm C.E. 10mm  
Body Dia: 54mm Comm. Bars: 25



## 6143-2011

Type: 12V, OSGR, 2.0kW, 2.2kW  
Replaces: M106X02271, 29871, 41672

Shaft Length: 152mm Splines: 9  
Shaft Dia: D.E. 15mm C.E. 9mm  
Body Dia: 54mm Comm. Bars: 25




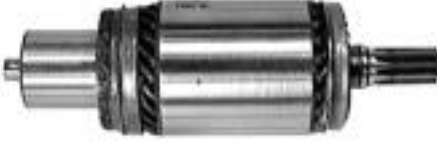
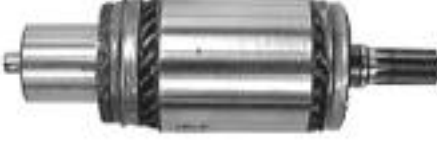
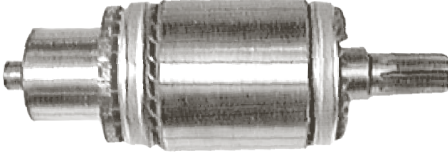
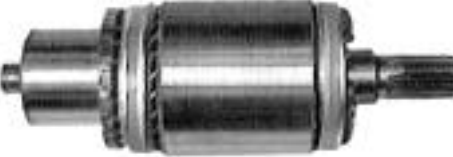

## 6143-2012

Type: 12V, OSGR, 1.6kW, 2.0kW  
Replaces: M106X01171

Shaft Length: 148mm Splines: 9  
Shaft Dia: D.E. 15mm C.E. 8mm  
Body Dia: 54mm Comm. Bars: 21

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## mitsubishi

|   |  |
|---|--|
|    | <p><b>6143-2021</b></p> <p>Type: 24V, OSGR, 3.2kW<br/>Replaces: M106X29371</p> <p>Shaft Length: 152mm Splines: 9<br/>Shaft Dia: D.E. 15mm C.E. 9mm<br/>Body Dia: 54mm Comm. Bars: 25</p>                             |
|    | <p><b>6143-2211</b></p> <p>Type: 12V, OSGR, 2.2kW<br/>Replaces: M106X40671, 50671</p> <p>Shaft Length: 169mm Splines: 9<br/>Shaft Dia: D.E. 15mm C.E. 9mm<br/>Body Dia: 54mm Comm. Bars: 23</p>                      |
|   | <p><b>6143-2221</b></p> <p>Type: 24V, OSGR, 5.0kW<br/>Replaces: M106X40871</p> <p>Shaft Length: 169mm Splines: 9<br/>Shaft Dia: D.E. 15mm C.E. 9mm<br/>Body Dia: 54mm Comm. Bars: 23</p>                             |
|  | <p><b>6143-2511</b></p> <p>Type: 12V, OSGR, 2.2kW, 3.5kW<br/>Replaces: M106X29272</p> <p>Shaft Length: 178mm Splines: 9<br/>Shaft Dia: D.E. 17mm C.E. 12mm<br/>Body Dia: 60mm Comm. Bars: 23</p>                     |
|  | <p><b>6143-2521</b></p> <p>Type: 24V, OSGR, 4.5, 5.0, 5.5, 6.0kW<br/>Replaces: M106X29171, M106X40471</p> <p>Shaft Length: 178mm Splines: 9<br/>Shaft Dia: D.E. 17mm C.E. 12mm<br/>Body Dia: 60mm Comm. Bars: 23</p> |
|  | <p><b>6143-2811</b></p> <p>Type: 12V, PLGR, 2.8kW<br/>Replaces: F4TZ-11005-A</p> <p>Shaft Length: 170mm Splines: 13<br/>Shaft Dia: D.E. 10mm C.E. 9mm<br/>Body Dia: 54mm Comm. Bars: 23</p>                          |

## MITSUBISHI



39MT

**6143-3911**

Type: 12V, OSGR, 3.9kW, Delco 39MT  
Replaces: N/A

|                 |       |             |        |
|-----------------|-------|-------------|--------|
| Shaft Length:   | 196mm | Splines:    | 14     |
| Shaft Dia: D.E. | 12mm  | C.E.        | 11.9mm |
| Body Dia:       | 68mm  | Comm. Bars: | 21     |



39MT

**6143-3921**

Type: 24V, OSGR, 7.0kW, Delco 39MT  
Replaces: N/A

|                 |       |             |        |
|-----------------|-------|-------------|--------|
| Shaft Length:   | 196mm | Splines:    | 14     |
| Shaft Dia: D.E. | 12mm  | C.E.        | 11.9mm |
| Body Dia:       | 68mm  | Comm. Bars: | 21     |

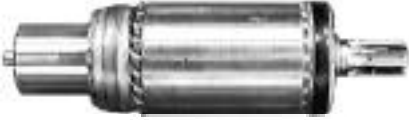


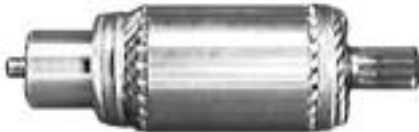




**6143-6021**

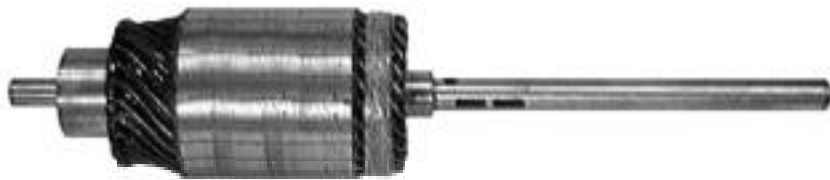
Type: 24V, OSGR, 6.0kW  
Replaces: M106X41071

|                 |       |             |      |
|-----------------|-------|-------------|------|
| Shaft Length:   | 202mm | Splines:    | 11   |
| Shaft Dia: D.E. | 25mm  | C.E.        | 12mm |
| Body Dia:       | 76mm  | Comm. Bars: | 21   |

## NIKKO

|  |   |
|--|---|
|     | <p><b>6144-2211</b></p> <p>Type: 12V, OSGR, 2.2kW,<br/>           Replaces: 0-23100-0201, 7-23100-0160,<br/>           7-23100-0250<br/>           Shaft Length: 174mm Splines: 8<br/>           Shaft Dia: D.E. 16mm C.E. 8mm<br/>           Body Dia: 49mm Comm. Bars: 21</p>   |
|     | <p><b>6144-2821</b></p> <p>Type: 24V, OSGR, 2.8kW,<br/>           Replaces: 0-23100-0171</p> <p>Shaft Length: 186mm Splines: 8<br/>           Shaft Dia: D.E. 16mm C.E. 8mm<br/>           Body Dia: 48mm Comm. Bars: 21</p>  |
|    | <p><b>6144-5520</b></p> <p>Type: 24V, D/D, 3.7kW, 5.5kW,<br/>           Replaces: 1-21100-1190</p> <p>Shaft Length: 355mm Splines: 15<br/>           Shaft Dia: D.E. M14 x 1.5mm C.E. 19mm<br/>           Body Dia: 83mm Comm. Bars: 37</p>                                       |
|   | <p><b>6144-5521</b></p> <p>Type: 24V, OSGR, 5.5kW,<br/>           Replaces: 0-23100-0161, 7-23100-0190,<br/>           7-23100-0220<br/>           Shaft Length: 191mm Splines: 11<br/>           Shaft Dia: D.E. 20mm C.E. 10mm<br/>           Body Dia: 60mm Comm. Bars: 23</p> |
|  | <p><b>6144-7520</b></p> <p>Type: 24V, D/D, 7.5kW,<br/>           Replaces: 1-21100-1210</p> <p>Shaft Length: 434mm Splines: 15<br/>           Shaft Dia: D.E. 19mm C.E. 19mm<br/>           Body Dia: 84mm Comm. Bars: 25</p>   |
|   | <p><b>6144-7521</b></p> <p>Type: 24V, OSGR, 7.5kW,<br/>           Replaces: 0-23100-0230, -231,<br/>           7-23100-0290<br/>           Shaft Length: 210mm Splines: 9<br/>           Shaft Dia: D.E. 20mm C.E. 10mm<br/>           Body Dia: 75mm Comm. Bars: 21</p>          |

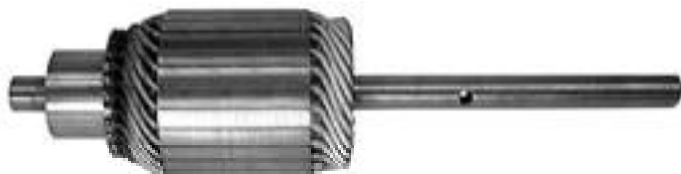
## PRESTOLITE



**6105-0611**

Type: 12V, CW, ML Series  
Relaces: 16-37, ML-2115

Shaft Length: 386mm Splines: 0  
Shaft Dia: D.E. 15.9mm C.E. 13.4mm  
Body Dia: 79mm Comm. Bars: 25



**6105-0711**

Type: 12V, CCW, MHA Series  
Relaces: 16-896, MDL-2246

Shaft Length: 302mm Splines: 0  
Shaft Dia: D.E. 15.9mm C.E. 15.9mm  
Body Dia: 74mm Comm. Bars: 27



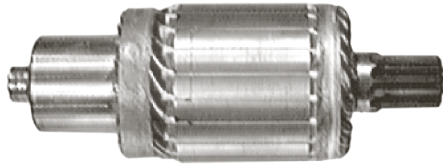
**6105-0712**

Type: 12V, CCW, MBG Series  
Relaces: 16-395, MBG-2411

Shaft Length: 316mm Splines: 0  
Shaft Dia: D.E. 12.7mm C.E. 16.1mm  
Body Dia: 66mm Comm. Bars: 27

2

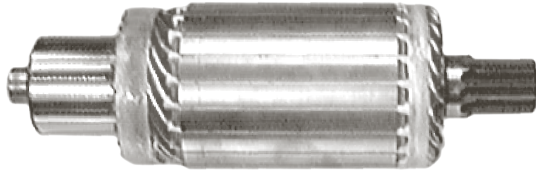
## SAWAFUJI



**6147-5521**

Type: 24V, OSGR, 5.5kW  
Replaces: 1320-073-00X0

Shaft Length: 178mm Splines: 12  
Shaft Dia: D.E. 22mm C.E. 15mm  
Body Dia: 65mm Comm. Bars: 21

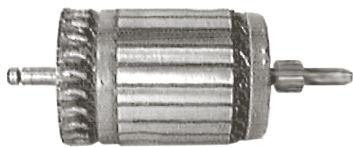


**6147-6021**

Type: 24V, OSGR, 6.0kW  
Replaces: 1320-075-00X0, 1320-097-00X0

Shaft Length: 204mm Splines: 12  
Shaft Dia: D.E. 22mm C.E. 15mm  
Body Dia: 65mm Comm. Bars: 21

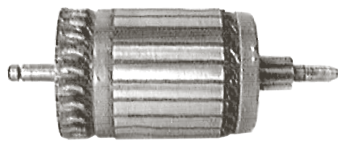
## VALEO



**6170-1011**

Type: 12V, PMGR  
Replaces: 186 917

Shaft Length: 112mm Splines: 13  
Shaft Dia: D.E. 6mm C.E. 6mm  
Body Dia: 44mm Comm. Bars: 23



**6170-1012**

Type: 12V, PMGR  
Replaces: 187 732

Shaft Length: 112mm Splines: 8  
Shaft Dia: D.E. 6mm C.E. 6mm  
Body Dia: 44mm Comm. Bars: 23

2



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