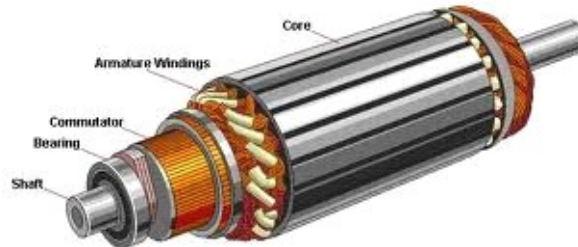


Armatures



Introduction

Armature may be referred to one of the two principal electrical components of an electro machine - a motor or generator, but may also mean the pole piece of a permanent magnet, an electromagnet, or the moving iron part of a solenoid or relay.

The role of the component is simply to create a magnetic field (magnetic flux) for the armature to interact with, so this component can comprise either permanent magnets, or electromagnets formed by a conducting coil. The armature, in contrast carries current so in a form of conductor or a coil oriented normal to both the field and to the direction of motion, torque (rotating machine) or force (linear machine).

The role of the armature can be described in two folds:

- To carry current crossing the field, thus creating shaft torque (in a rotating machine) or force (linear machine)
- To generate an electromotive force ("EMF").

Ranges of Armatures



Lucas

Technical Specification



Delco-Remy

Technical Specification



Bosch

Technical Specification



Mitsubishi

Technical Specification



Others

Technical Specification

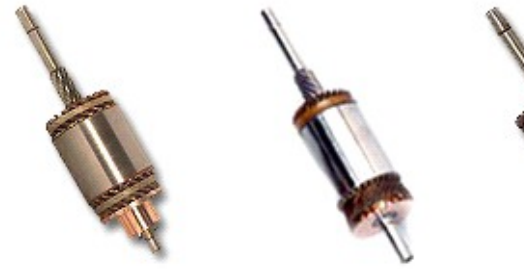
Working Principle

An electromotive force ("EMF") is created by the relative motion of the armature and the machine work as a motor, the EMF produces a resistance for the armature current, and it converts the electric power to mechanical torque. The generated load is transferred through induction generators, these distinctions are totally blurred, since the generated power is distributed between the stator, normally be considered the field.

Maintenance

All General Use Housings/Armatures have an integrated electrode protection design to prevent damage of the electrode membrane due to solid components. Available with accessories sockets and Flow-through cells.

Armatures (Lucas - Technical Specification)



SR. NO.	PARAS AUTO PART NO.	REF. PART NO. (LUCAS)	APPLICATION
1	PA-7101	TJB-103 54243590	SERVICING M50 DD STARTERS 26273E/F, 26304D, 26316D, 26341A, 27500A
2	PA-7102	TJB-111	SERVICING M50 DD STARTERS 26273E/F 26304D, 26316D, 26341A, 27500A, USED ON ALLIS CHALMERS JCB, PERKINS
3	PA-7103	TJB-104 54243592	SERVICING M50 DD STARTERS 26363, 26367, 26362, 26384, 26416, 26420, 26421, 26428, 26429, 26433, 26434, 26435, USED ON IHC
4	PA-7104	TJB-107 54258128	
5	PA-7105	TJB-106 54257635	SERVICING M50 DD STARTERS 26211
6	PA-7106	TJB-112 54268555	SERVICING LUCAS M127 DD STARTERS 27508, 27509 27512 27533 27543 27545 27546 27551 27552 27556 27557 27558 USED ON ALIIS CHALMERS
7	PA-7107	TIB-108 54247379	SERVICING LUCAS DD STARTER M45G & 2M113, 26310E/F, 26321 USED ON MASSEY FERGUSON
8	PA-7108	TIB-114 54255952	SERVICING LUCAS M45G DD STARTER : 26215 A/F, 26236L, 26264 N /K , 26271 F/J, 26275A/F, 26278U, 26279F/K, 26283H/K, 26288F/J, 26301A/E, 26310A/D
9	PA-7109	TIB-109 54247383	SERVICING LUCAS M45G DD STARTER 27419A
10	PA-7110	TIB-117 54257650	SERVICING LUCAS M45G DD STARTER 26233A/F
11	PA-7111	TGB-114 54268252	
12	PA-7112	TGB-100 54241719 54247025 54247556	SERVICING LUCAS M35J STARTERS 25137
13	PA-7113	TGB-110 54267043	SERVICING LUCAS STARTERS 9M90 25332 25333 25336 25337 25339 25344 25344 25355 35365
14	PA-7114	TGB-109 54267052	SERVICING LUCAS 8M90 STARTERS 25326 25331 25335 25336 25354 25356 25357

Armatures (Delco-Remy - Technical Specification)

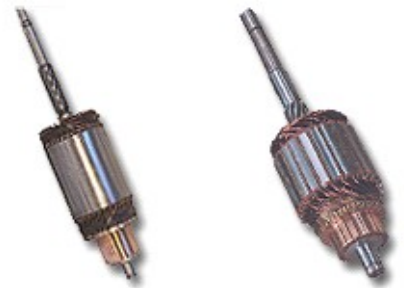


**SR. NO.PARAS AUTO
NO.REF. PART NO.**

(DELCO-REMY)APPLICATION

- 1PA-750110457117SERVICING DELCO 28MT SERIES
OSGR STARTERS 1113272, 1113277, 1113291
2PA-750210456466SERVICING DELCO 28MT SERIES OSGR STARTERS
3PA-7503E907-11005-ASERVICING FORD SERIES PMGR STARTERS
4PA-750410498646
5PA-750510498586SERVICING DELCO PG200 SERIES
PMGR STARTER 9000719 / 735
6PA-75061945500SERVICING DELCO 40MT SERIES DD STARTERS
7PA-75071961320SERVICING DELCO 40MT SERIES DD STARTERS
8PA-75081987989SERVICING DELCO 42MT SERIES DD STARTERS
9PA-75091988435SERVICING DELCO 42MT SERIES DD STARTERS
10PA-75101945840SERVICING DELCO 50MT SERIES DD STARTERS
11PA-75111876366SERVICING DELCO 27MT SERIES
12PA-75121951254SERVICING DELCO 50MT SERIES DD STARTERS

Armatures (Bosch - Technical Specification)



**SR. NO.PARAS AUTO
NO.REF. PART NO.**

(BOSCH)APPLICATION

- 1PA-81012.004.004.003SERVICING BOSCH 367 SERIES DD STARTER
USED ON DEUTZ IVECO, JOHN DEERE MACK MAGIRUS
2PA-81022.004.004.033SERVICING BOSCH 368 SERIES DD STARTERS
USED ON IVECO, DEUTZ, MAGRIUS, VOLVO, WHITE GMC
3PA-81032.004.005.920
4PA-81042.004.005.916
5PA-81052.004.004.111USED ON DEUTZ , IVECO, MAGIRUS, VOLVO, V
6PA-81062.004.004.112SERVICING BOSCH 359 SERIES DD STARTERS
/ 004 / 008 / 021 / 071 / 072 / USED ON
DEUTZ , IVECO, MACK, MAGRIUS
7PA-81072.004.004.115SERVICING BOSCH 364 SERIES DD STARTERS
/ 102 / 103 / 104 / 105 / 106 / 108 / 200 / 201 / 202 / 205
USED ON DEUTZ, MAGIRUS
8PA-81089.001.083.327SERVICING BOSCH JF SERIES STARTER 9.000
USED ON MERCEDES BENZ OM366
9PA-81099.001.083.498
10PA-81109001.042.051SERVICING BOSCH STARTER(MEXICAN) 9.000
11PA-81119001.042.148SERVICING BOSCH STARTER 9.000.042(MEXI

USED ON DATSUN 1800CC
 12PA-81129001.042.186SERVICING BOSCH STARTER 9.007.042.021 /
 USED ON TSURU STUD
 13PA-81139001.042.296SERVICING BOSCH STARTER(MEXICAN)
 9.000.042.057,VW(037911023)
 14PA-81149001.043.075SERVICING BOSCH STARTER MEXICAN
 USED ON FORD CHEV(1970-77) VAM (1971)
 15PA-81159001.043.100SERVICING BOSCH STARTER 9.000.043.020 /
 16PA-81169001.043.123SERVICING BOSCH STARTER 9.000.043.024/
 17PA-81179001.043.159SERVICING BOSCH STARTER 9.007.043.020 /
 18PA-81189001.043.255SERVICING BOSCH STARTERS 9.000.043.037
 19PA-81192.004.005.022SERVICING BOSCH 414, 415, 416 SERIES DD
 USED ON CLARK, KHD, MAN, MERCEDES-BENZ TRUCK,
 VOLVO,WHITE GMC
 20PA-81202.004.005.023SERVICING BOSCH 417 SERIES DD STARTER
 / 005 / 006 / 012 / 014 / 016 / 018 / 022 / 023 / 025 /026 /027 /02
 /030 /035 / 037 043 / 044 / 047 / 050
 21PA-81212.004.005.025CLARK, KHD, MAN, MERCEDES-BENZ TRUCK,
 VOLVO-PENTA
 22PA-81222.004.004.074SERVICING BOSCH 362 SERIES STARTERS 0
 / 308 / 311 / 313 / 314 / 322 / 602 / 603 / 606 / 607
 23PA-8123
 24PA-81242.004.004.076
 25PA-81251.004.12.450SERVICING BOSCH 218 SERIES GEAR REDUCT
 26PA-81262.004.004.118SERVICING BOSCH 363 SERIES DD STARTER
 USED ON IVECO, RAVO CORP.
 27PA-8127
 28PA-81282.004.004.092SERVICING BOSCH 362 SERIES STARTERS 0
 308 / 311 / 313 / 314 / 322 / 602 / 603 / 606 / 607



TECHNICAL SPECIFICATIONS OF ARMATURES (MITSUBISHI)

S.no.	PARAS AUTO no.	Ref. Part no. (Mitsubishi)
1	PA-8301	M106T188171
2	PA-8302	M106X29171
3	PA-8303	M106X29171
4	PA-8304	M106X29371
5	PA-8305	M106X29871

TECHNICAL SPECIFICATIONS OF ARMATURES (OTHERS)

S.No.	PARAS AUTO no.	REFERENCE PART NO. (PARIS-RHONE)	VOLTS	USE ON	LENGTH (mm)	NO. OF SPLINE	SPLINES SPECIFICATION	SEGMENT
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1	PA-8501	102380	12	Peugeot 504	189	9	10	19
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S.No.	PARAS AUTO no.	REFERENCE PART NO. (VALEO)	VOLTS	USE ON	LENGTH (mm)	NO. OF SPLINE	SPLINES SPECIFICATION	SEGMENT
1	PA-8601	100287	12	Peugeot	252.5	9	R. Helex	2