



HWACHOU

CHANGZHOU HUAZHOU AUTO MOTOR FACTORY
CHANGZHOU ZHENGHENG AUTO PARTS LTD. COMPANY

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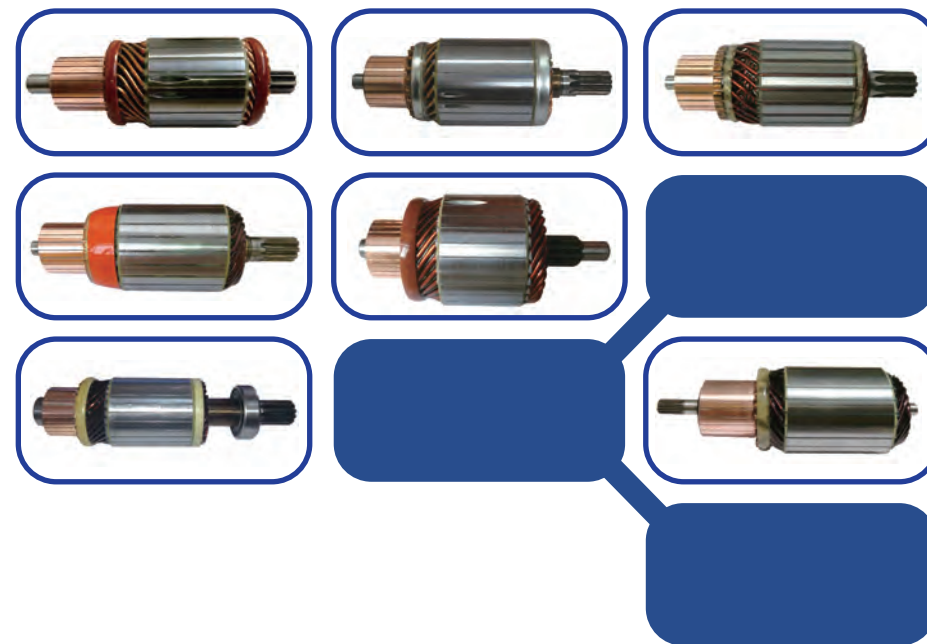
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HZ ARMATURE



2018-2019

ARMATURE

CHANGZHOU HUAZHOU AUTO MOTOR FACTORY
CHANGZHOU ZHENGHENG AUTO PARTS LTD. COMPANY



CHANGZHOU HUAZHOU AUTO MOTOR FACTORY is located in Changzhou, Jiangsu Province. It's near the Shanghai Port and the highway transportation is very convenient. Our Factory was founded in 2002 and specialized in armature producing. In domestic market, the armatures are sold all over China and mainly supplied to diesel engine plants, like HUAYUAN LAIDONG,, JIANGDONG, etc. In overseas market, the armatures are exported to many countries, like Brazil, Mexico, Mid-east, Mid-Asia, etc.

We have Mitsubishi, Nippondenso, Hitachi, Delco, Sawafuji, Bosch, etc series. The armature is manufactured based on OE NO. or sample which is provided by customer. Our factory insists on Quality First and produces the high-quality armatures for our customer with good service. Hope we will have win-win cooperation in the future.

◀ **mitsubishi**

HZ-MI001



ORME: IM3088

SLOTS	23	L	170.00mm
SPLINES	13	O.D.	53.70mm
VOLTAGE	24V	SHAFT O.D.	9.00mm/10.00mm

REPLACING	F4PU1100AB F4TZ11005A SM461 F004PU1100AB F4PU1100AB
SERVICING	M8T50071 M8T50171
APPLICATION	mitsubishi DELCO/FORD

HZ-MI002



ORME: IM3039 WAI: 61-8311

SLOTS	23	L	170.00mm
SPLINES	13	O.D.	53.70mm
VOLTAGE	12V	SHAFT O.D.	9.00mm/10.00mm

REPLACING	F4PU1100AB F4TZ11005A SM461 F004PU1100AB F4PU1100AB
SERVICING	M8T50071 M8T50171
APPLICATION	mitsubishi DELCO/FORD

HZ-MI003



ORME: IM3026 WAI: 61-8314

SLOTS	23	L	178.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	17.00mm/12.00mm

REPLACING	M106X29171 M106X41271
SERVICING	M3T50176 M3T56072 M3T56074 M3T56076 M3T56082 M3T56084 M3T56181 M3T56182 M3T57371 M3T57575 M3T58071 M3T58571 M3T58771
APPLICATION	mitsubishi 6D14,15,16

MITSUBISHI ▶▶

HZ-MI004



6D34

SLOTS	25	L	154.80mm
SPLINES	13	O.D.	53.70mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/9.00mm

REPLACING	-
SERVICING	-
APPLICATION	mitsubishi

HZ-MI005

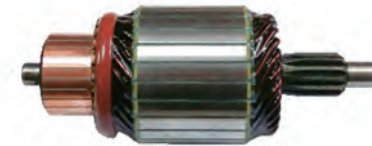


6D34

SLOTS	25	L	154.80mm
SPLINES	13	O.D.	53.70mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/9.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-MI006



ORME: IM3079

SLOTS	25	L	141.00mm
SPLINES	13	O.D.	53.70mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/9.00mm

REPLACING	M106X43571 Md618958
SERVICING	M2T84071 M2T84171 M2T84571 M2T87071 M2T87171 M2T87271 M2T87371 M2T87471 M2T87871 M2T87971 M8T75071 M8T87671
APPLICATION	MITSUBISHI: 4D33

◀◀ MITSUBISHI

HZ-MI007



ORME: IM3095

SLOTS	25	L	141.00mm
SPLINES	13	O.D.	53.70mm
VOLTAGE	24V/3.2kw	SHAFT O.D.	10.00mm/9.00mm

REPLACING	M105X43771 M106X43772 Me701492
SERVICING	M008T85071 M008T85071A M8T800571 M8T80071 M8T80071A M8T80171 M8T80471 M8T80472 M8T85071 M8T85071A M8T85271
APPLICATION	MITSUBISHI: 4D33

HZ-MI008



ORME: IM3040

SLOTS	25	L	152.00mm
SPLINES	9	O.D.	53.50mm
VOLTAGE	24V/3.2kw	SHAFT O.D.	15.00mm/9.00mm

REPLACING	M106X29371 Me700136
SERVICING	M2T55271 M2T63172 M2T64271 M2T64471 M2T65271 M2T65272 M2T65641 M2T66071 M2T66271 M2T66871 M2T66872 M2T66873 M2T67871 M2T67872 M2T67873
APPLICATION	MITSUBISHI: 4D33 Forklift

HZ-MI009



ORME: IM3041 WAI: 61-8303

SLOTS	25	L	152.00mm
SPLINES	9	O.D.	53.50mm
VOLTAGE	12V/2.0kw	SHAFT O.D.	15.00mm/9.00mm

REPLACING	M106X02271 M106X29871 M106X41671 Md618369
SERVICING	M2T54272 M2T54471 M2T54572 M2T54771 M2T56171 M2T56181 M2T56182 M2T56185 M2T56271
APPLICATION	MITSUBISHI: Pajero 2.3 TD

MITSUBISHI ▶▶

HZ-MI010



ORME: IM3094

SLOTS	23	L	169.00mm
SPLINES	9	O.D.	53.70mm
VOLTAGE	24V	SHAFT O.D.	15.00mm/9.00mm

REPLACING	M106X40871
SERVICING	M002T78071 M002T78072 M2T78381 M2T78481 M2T78482
APPLICATION	mitsubishi 6D31

HZ-MI011

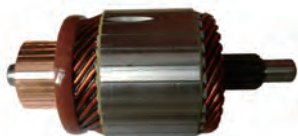


ORME: IM3047

SLOTS	21	L	182.60mm
SPLINES	8	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/12.00mm

REPLACING	M106T05571 M106T5770 3615011150
SERVICING	3610011150 3610021760 M3T21381 M3T27686
APPLICATION	MITSUBISHI MANDO

HZ-MI012



ORME: IM3061 WAI: 61-8313

SLOTS	29	L	121.50mm
SPLINES	11	O.D.	53.80mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/10.00mm

REPLACING	M106T08761 M106X08671 M106X52171 M106X58571
SERVICING	M1T60081A M1T60181 M1T60581 M1T61181 M1T70483 M1T70685A M1T70881 M1T70881A M1T70981A M1T71181A
APPLICATION	MITSUBISHI

◀◀ MITSUBISHI

HZ-MI013



ORME: IM3071 WAI: 61-8316

SLOTS	29	L	121.50mm
SPLINES	11	O.D.	53.80mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/8.00mm

REPLACING	M106X06971 M106X50171 M106X611304 M106X618451
SERVICING	M1T70481 M1T70685 M1T70687 M1T70881 M1T70281
APPLICATION	HYUNDAI MAZDA MITSUBISHI NISSAN

HZ-MI014



ORME: IM3045 WAI: 61-8302

SLOTS	23	L	178.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	17.00mm/12.00mm

REPLACING	M106X29271 M106X29272 M106X41971
SERVICING	M3T66071 M3T66072 M3T66074 M3T67171 M3T67172 M3T67281
APPLICATION	MITSUBISHI DELCO/FORD

HZ-MI015



ORME: IM3046

SLOTS	23	L	169.50mm
SPLINES	9	O.D.	53.60mm
VOLTAGE	12V	SHAFT O.D.	9.00mm/15.00mm

REPLACING	M10640671 M106X50671
SERVICING	M2T60071 M2T60072 M2T60171 M2T60172 M2T60185 M2T60671
APPLICATION	MITSUBISHI MAZDA FORD RANGER

MITSUBISHI ▶▶

HZ-MI016

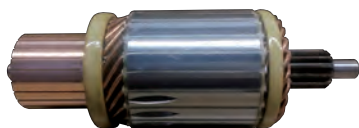


ORME: IM3093 WAI: 61-146

SLOTS	25	L	143.00mm
SPLINES	11	O.D.	53.80mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/10.00mm

REPLACING	M106X54271 M10657471 2331060U10 3131160A12
SERVICING	2330060U10 2330060U11 2330060U12 2330063J00 M1T74181A M1T74781A M1T75181A M1T75381 M1T75581 M1T90281
APPLICATION	DELCO PG260F2 SERIES MITSUBISHI PMGR STARTERS

HZ-MI017



ORME: IM3096

SLOTS	23	L	177.00mm
SPLINES	13	O.D.	60.30mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/9.00mm

REPLACING	-
SERVICING	M9T60371
APPLICATION	MITSUBISHI

HZ-MI018



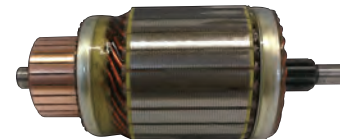
ORME: IM3138 WAI: 61-8323

SLOTS	25	L	127.00mm
SPLINES	11	O.D.	53.80mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/10.00mm

REPLACING	-
SERVICING	M1T85781
APPLICATION	RENAULT MEGANE SCENIC 1.9dTi

◀◀ MITSUBISHI

HZ-MI019

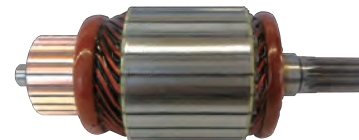


ORME: IM3139

SLOTS	25	L	132.00mm
SPLINES	9	O.D.	53.85mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/8.00mm

REPLACING	-
SERVICING	M1T80081 M1T80082 M1T80381
APPLICATION	CITROEN BERLINGO 1.8,1.9,2.0D-HDI CITROEN BX,C4,C5,1.9D

HZ-MI020



ORME: IM3143

SLOTS	25	L	140.00mm
SPLINES	9	O.D.	53.70mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	-
SERVICING	23300VK500 M002T50571 M002TS0571 M2TS0571
APPLICATION	NISSAN KING CAB NAVARA 2.5T 02

HZ-MI021



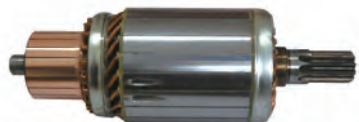
ORME: IM3144

SLOTS	25	L	141.30mm
SPLINES	11	O.D.	53.65mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	-
SERVICING	M008T71471 M8T71471
APPLICATION	NISSAN PRIMERA 2.2 Di (03.2002->) 93 kW

MITSUBISHI ▶▶

HZ-MI022

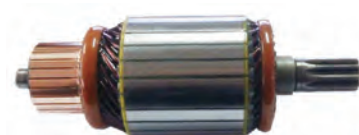


ORME: IM3034 8DC9

SLOTS	21	L	197.00mm
SPLINES	10T	O.D.	65.00mm
VOLTAGE	24V/6.5kW	SHAFT O.D.	-

REPLACING	FG-2403
SERVICING	-
APPLICATION	MITSUBISHI 8DC9

HZ-MI023

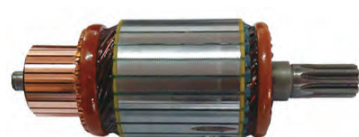


ORME: IM3041-SHORT

SLOTS	25	L	151.00mm
SPLINES	9T	O.D.	53.50mm
VOLTAGE	12V	SHAFT O.D.	15.00mm/9.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-MI024



ORME: IM3040-SHORT

SLOTS	25	L	151.00mm
SPLINES	9T	O.D.	53.50mm
VOLTAGE	24V	SHAFT O.D.	15.00mm/9.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

◀◀ MITSUBISHI

HZ-MI025

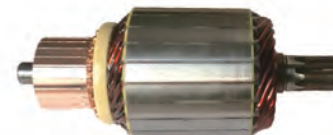


M106X40471

SLOTS	23	L	177.00mm
SPLINES	9T	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	12.00mm/17.00mm

REPLACING	M106X40471
SERVICING	M3T95071 M3T95073 3T95081
APPLICATION	MITSUBISHI

HZ-MI026

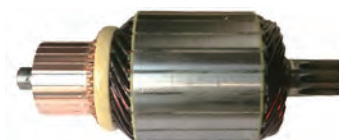


IM1315-12V

SLOTS	23	L	160.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/17.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-MI027



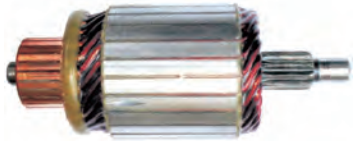
IM1315-24V

SLOTS	23	L	160.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/17.00mm

REPLACING	-
SERVICING	M008T71471 M8T71471
APPLICATION	NISSAN PRIMERA 2.2 Di (03.2002->) 93 kW

MITSUBISHI ▶▶

HZ-MI028



ORME: IM3131 WAI: 61-149

SLOTS	25	L	138.00mm
SPLINES	11	O.D.	53.80mm
VOLTAGE	12V/1.6kW	SHAFT O.D.	10.00mm/10.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-MI029



ORME: M93

SLOTS	25	L	168.00mm
SPLINES	12	O.D.	59.00mm
VOLTAGE	24V	SHAFT O.D.	11.00mm/10.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-MI030



ORME: IM3109 WAI: 61-8318

SLOTS	28	L	123.00mm
SPLINES	11T	O.D.	55.00mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/9.97mm

REPLACING	M106X58671 M106X58971 233101S710
SERVICING	2330001S770 233001S772 M0T60081 M0T60081A M0T60082 M0T60181 M0T60082 M0T60181 M0T60581 M0T85281 M0T85981
APPLICATION	BOSCH

◀◀ MITSUBISHI

HZ-MI031



ORME: IM3081 WAI: 61-8317

SLOTS	29	L	106.50mm
SPLINES	9T	O.D.	53.50mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/8.00mm

REPLACING	BPD418X60 M106T57671 M106X57671 M106X58771 M371X1473 M371X1473 MD619164 233100M210
SERVICING	M08T80081 M0T80281 M0T80281A M0T80381 M0T80581 M0T80681
APPLICATION	mitsubishi, MAZDA NISSAN

VALEO ▶▶

HZ-VA001



ORME: IM3128

SLOTS	21	L	155.50mm
SPLINES	-	O.D.	50.00mm
VOLTAGE	12V/0.85kW	SHAFT O.D.	-

REPLACING	594518
SERVICING	-
APPLICATION	D7E1 D7E16 D7E19 D7E20 D7E22 D7E23 D7E26 D7E27 D7E52

HZ-VA002

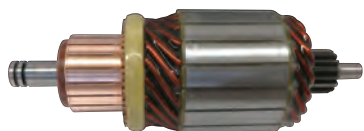


ORME: IM3129

SLOTS	23	L	112.00mm
SPLINES	7	O.D.	44.15mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	594228 594528 594530
SERVICING	D6RA100 D6RA101 D6RA104 D6RA105 D6RA107 D6RA108 D6RA109 D6RA110 D6RA115 D6RA133 D6RA167 D6RA180 D6RA181 D6RA67
APPLICATION	VALEO 1.0 - 1.4kW

HZ-VA003



ORME: IM542

SLOTS	19	L	141.50mm
SPLINES	16T	O.D.	50.00mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/7.00mm

REPLACING	182591 594278 594344 NE824
SERVICING	-
APPLICATION	VALEO

◀◀ NIPPONDENSO

HZ-ND001

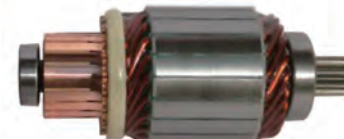


ORME: IM3050 WAI: 61-8202

SLOTS	21	L	135.50mm
SPLINES	9	O.D.	46.70mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/15.00mm

REPLACING	DENSO: 0212002120 0282001531 0282002120 0282004540 2816026070 31207657671 492007212 5811210310 31207657671 31207PC2671 ISUZU: 5711210310 8943171900 MITSUBISHI: MD604318 SUBARU: 23310AA030 492007212 TOYOTA: 2816026040 2816026070
SERVICING	0280000101 0280001520 0280002060 0280002120 0280002140 0280002160 0280002600 0280003111 0280003590 0280003670 0280004571 0280004750 0280005581 0280005691 0280005911 0280005912 0280006000 0280006001
APPLICATION	-

HZ-ND002



ORME: IM3102 WAI: 61-8211

SLOTS	21	L	168.00mm
SPLINES	9	O.D.	59.00mm
VOLTAGE	12V/1.4kW	SHAFT O.D.	15.00mm/8.00mm

REPLACING	282006250
SERVICING	1280007002 1280007390 1280008210 1280008321 1280008400 1280008500 1280009300 1280009310 1280009520 1280009701 1280009710 1280009720
APPLICATION	-

HZ-ND003



ORME: IM3067 WAI: 61-8207

SLOTS	23	L	167.50mm
SPLINES	19	O.D.	50.00mm
VOLTAGE	12V/2.0kW	SHAFT O.D.	8.00mm/10.00mm

REPLACING	028007430 0282002140 0282005350 0282007430 1542563071 2816054070 2816054071 2816087705 5811210290 5811210290 RF0124705
SERVICING	Delco/Ford: 1280000570 Denso: 0280007001 0280007370 0280007373 0280007740 0280007791
APPLICATION	DENSO ISUZU MAZDA

NIPPONDENSO ▶▶

HZ-ND004



3170

SLOTS	27	L	161.00mm
SPLINES	21	O.D.	50.72mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/11.00mm

REPLACING	-
SERVICING	-
APPLICATION	DENSO 1.8

HZ-ND005

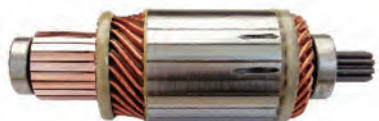


ORME: IM3010 WAI: 61-8209

SLOTS	23	L	187.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	24V/4.5kW	SHAFT O.D.	17.00mm/10.00mm

REPLACING	Denso:02816077090 0282001590 0282002230 1811210240 2716077090 Isuzu:1811210240 Toyota:2816077090
SERVICING	0280005510 0280005530 0280005550 0280005690 0280005832 0280005833 0280005840 0280005850 0280005860 0280005861 0280005861 0280005862
APPLICATION	DENSO ISUZU TOYOTA

HZ-ND006



ORME: IM3023 WAI: 61-8203

SLOTS	23	L	187.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	17.00mm/10.00mm

REPLACING	0282001780 0282001900 5811210220 0282006230
SERVICING	0280005560 0280005580 0280005640 0280005880 0280006290 0280006340 0280006410 0280006560 0280006561 0280006640 0280006780 0280006840
APPLICATION	DENSO ISUZU

◀◀ NIPPONDENSO

HZ-ND007



ORME: IM3068

SLOTS	23	L	167.50mm
SPLINES	19	O.D.	50.40mm
VOLTAGE	24V	SHAFT O.D.	8.00mm/10.00mm

REPLACING	-
SERVICING	-
APPLICATION	DENSO

HZ-ND008



ORME: IM3069 WAI: 61-8208

SLOTS	23	L	211.00mm
SPLINES	18	O.D.	64.70mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/15.00mm

REPLACING	0282005250 1811210440
SERVICING	128000245 128000256 128000274 128000573 2280005610
APPLICATION	DENSO ISUZU

HZ-ND009



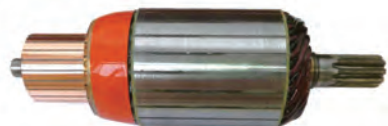
ORME: IM3010 WAI: 61-8209

SLOTS	23	L	187.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	24V/4.5kW	SHAFT O.D.	17.00mm/10.00mm

REPLACING	Denso:02816077090 0282001590 0282002230 1811210240 2716077090 Isuzu:1811210240 Toyota:2816077090
SERVICING	0280005510 0280005530 0280005550 0280005690 0280005832 0280005833 0280005840 0280005850 0280005860 0280005861 0280005861 0280005862
APPLICATION	DENSO ISUZU TOYOTA

NIPPONDENSO ▶▶

HZ-ND010



ORME: IM3023 WAI: 61-8203

SLOTS	23	L	187.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	12V/2.5kW	SHAFT O.D.	17.00mm/10.00mm

REPLACING	0282001780 0282001900 5811210220 0282006230
SERVICING	0280005560 0280005580 0280005640 0280005880 0280006290 0280006340 0280006410 0280006560 0280006561 0280006640 0280006780 0280006840
APPLICATION	DENSO ISUZU

HZ-ND011



ORME: IM3070 WAI: 61-8204

SLOTS	23	L	211.00mm
SPLINES	18	O.D.	64.70mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/15.00mm

REPLACING	0282002800 1811210420
SERVICING	128000049 128000247 128000422 128000491 128000537 128000551 128000551 1280000562 128000572 1280005600
APPLICATION	DENSO ISUZU

HZ-ND012



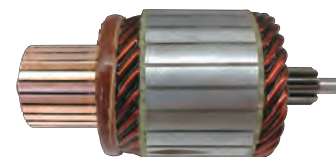
ORME: IM3080

SLOTS	23	L	167.50mm
SPLINES	19	O.D.	54.20mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/10.00mm

REPLACING	0282005040
SERVICING	1280000830 1280008031 1280000832 1280005760 1280009560 2280000200 2280000390 2280000391 2280000460 2280000880 2280001690 2280001780
APPLICATION	DENSO 2.2KW HYSTER FORKLIFT

◀◀ NIPPONDENSO

HZ-ND013



ND013

SLOTS	25	L	118.00mm
SPLINES	11	O.D.	53.70mm
VOLTAGE	24V	SHAFT O.D.	8.00mm/6.00mm

HZ-ND014



ND014

SLOTS	19	L	124.00mm
SPLINES	16	O.D.	50.00mm
VOLTAGE	12V	SHAFT O.D.	6.00mm/8.00mm

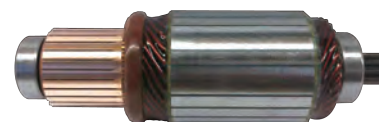
HZ-ND015



ND015

SLOTS	25	L	108.00mm
SPLINES	11	O.D.	52.60mm
VOLTAGE	24V	SHAFT O.D.	7.00mm/7.00mm

HZ-ND016



ORME: IM3170 9T

SLOTS	27	L	161.00mm
SPLINES	9	O.D.	50.72mm
VOLTAGE	12V	SHAFT O.D.	-

HITACHI ▶▶

HZ-HI001



ORME: IM3056 WAI: 61-8117

SLOTS	27	L	180.00mm
SPLINES	11	O.D.	52.70mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/17.00mm

REPLACING	213061004 2331005000
SERVICING	S13102 S13102A S13200 S13203 S13210B S13210C S13282 S13289 S13289A S13294 S13302 S13302A S13305 S13307A
APPLICATION	HITACHI

HZ-HI002



ORME: IM3057

SLOTS	27	L	180.00mm
SPLINES	11	O.D.	52.70mm
VOLTAGE	24V	SHAFT O.D.	8.00mm/20.00mm

REPLACING	213081004 233100Y000 12990077400
SERVICING	S13204 S13205B S13205D S13332 12990077010
APPLICATION	HITACHI TRUCK NISSAN YANMAR

HZ-HI003



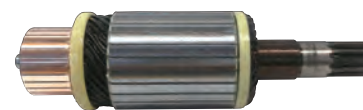
ORME: IM3032

SLOTS	27	L	195.00mm
SPLINES	11	O.D.	52.70mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	22402100, ISUZU: 8941529670, 23310T9002 YANMAR: 1191317740
SERVICING	S2401C S2401D S2403B S2403C S2405A S2405B S2407 S2408 S2408A S2410 S2411 S2412 S2413 S2414
APPLICATION	HITACHI

◀◀ HITACHI

HZ-HI004

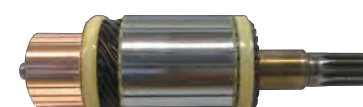


ORME: IM3037 WAI: 61-8123

SLOTS	27	L	195.00mm
SPLINES	11	O.D.	52.70mm
VOLTAGE	12V/2.5kW	SHAFT O.D.	-

REPLACING	136248 2130-41003 23310-02N00
SERVICING	23300-0T02 S13-107A
APPLICATION	NISSAN CAB STAR 2.5D, KING VAN 2.3D-2.5D

HZ-HI005



ORME: IM3027

SLOTS	27	L	173.50mm
SPLINES	11	O.D.	52.70mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/17.00mm

REPLACING	21301101 213031002 2331054A00
SERVICING	S13105 S13105A S1366A S1381
APPLICATION	HITACHI

HZ-HI006



ORME: IM3038 WAI: 61-8124

SLOTS	29	L	145.00mm
SPLINES	9	O.D.	50.40mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	21144100 211441100 211461300 11840077251
SERVICING	S114850 S114851A
APPLICATION	HITACHI S114-850

HITACHI ▶▶

HZ-HI007



ORME: IM3044 WAI: 61-8114

SLOTS	29	L	110.00mm
SPLINES	8	O.D.	50.50mm
VOLTAGE	12V/1.4kW	SHAFT O.D.	6.67mm/11.87mm

REPLACING	211421111 211451300 2331031U00 8981303040 233100M300
SERVICING	233000M200 2330031U00 2330031U01 2330031U02 S114800 S114800A S114800B S114801 S114801A S114801B S114801C
APPLICATION	HITACHI ISUZU NISSAN YANMAR

HZ-HI008



ORME: IM3136

SLOTS	27	L	173.00mm
SPLINES	9	O.D.	52.80mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	-
SERVICING	S13-555A
APPLICATION	-

HZ-HI009



ORME: IM3000 WAI: 61-8106

SLOTS	27	L	188.00mm
SPLINES	11	O.D.	52.70mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/17.00mm

REPLACING	211491002 13021003 213031003 213041004 21304102 213051002 213051003 213061003 213091002 2331010G00 2331043G00
SERVICING	S13100 S13104 S13106 S13106A S13106B S13106C S13106E S13111 S13112 S13114 S13114A S13115A S13124 S13127A
APPLICATION	HITACHI NISSAN YANMAR

◀◀ HITACHI

HZ-HI010



ORME: IM3017 WAI: 61-8110

SLOTS	25	L	165.00mm
SPLINES	11T	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	12.00mm/25.00mm

REPLACING	213011001 213031004 5811210021 23310J5501 12125477401
SERVICING	2330031W02 2330037J00 S1333B S1337 S1337B S1338 S1341A S1345B S1367B S1376A S1378 S1386
APPLICATION	HITACHI ISUZU NISSAN YANMAR

HZ-HI011



ORME: IM3035 WAI: 61-8111

SLOTS	25	L	165.00mm
SPLINES	11T	O.D.	60.00mm
VOLTAGE	12V/2.5kW	SHAFT O.D.	12.00mm/25.00mm

REPLACING	213011001 213031004 5811210021 23310J5501 12125477401
SERVICING	2330031W02 2330037J00 S1333B S1337 S1337B S1338 S1341A S1345B S1367B S1376A S1378 S1386
APPLICATION	HITACHI ISUZU NISSAN YANMAR

HZ-HI012



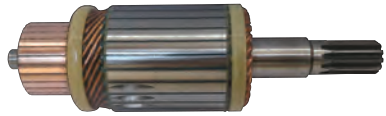
ORME: IM3056-24V

SLOTS	27	L	180.00mm
SPLINES	11	O.D.	52.70mm
VOLTAGE	24V/2.5kW	SHAFT O.D.	8.00mm/17.00mm

REPLACING	213061004 2331005000
SERVICING	S13102 S13102A S13200 S13203 S13210B S13210C S13282 S13289 S13289A S13294 S13302 S13302A S13305 S13307A
APPLICATION	HITACHI

HITACHI ▶▶

HZ-HI013

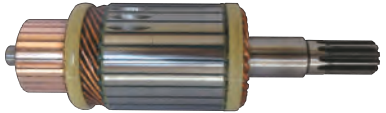


498

SLOTS	27	L	182.00mm
SPLINES	11T	O.D.	52.70mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/17.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-HI014

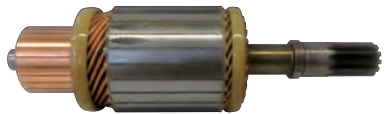


498-12V

SLOTS	27	L	182.00mm
SPLINES	11T	O.D.	52.70mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/17.00mm

REPLACING	21301101 213031002 2331054A00
SERVICING	S13105 S13105A S1366A S1381
APPLICATION	HITACHI

HZ-HI015



-

SLOTS	25	L	210.00mm
SPLINES	11	O.D.	60.00mm
VOLTAGE	-	SHAFT O.D.	12.00mm/20.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

◀◀ DELCO

HZ-DE001

ORME: IM414
WAI: 61-124 50MT Short



SLOTS	25	L	484.00mm
SPLINES	19	O.D.	96.00mm
VOLTAGE	24V	SHAFT O.D.	15.80mm/17.30mm

REPLACING	DELCO/FORD: 1945840 1953233
SERVICING	10478911 10479343 1109220 1109297 1109626 1109628 1109631 1109637 1109642 1109643 1109648 1109755 1109773 1109775 1109840 1109842
APPLICATION	DELCO/FORD 50MT Short

HZ-DE002

ORME: IM416
WAI: 61-125 50MT Long



SLOTS	25	L	533.00mm
SPLINES	19	O.D.	96.00mm
VOLTAGE	24V	SHAFT O.D.	15.80mm/17.30mm

REPLACING	DELCO/FORD: 1951254
SERVICING	1109632 1109635 1109779 1109969 1109989 1990227
APPLICATION	DELCO/FORD 50MT Long

DELCO ▶▶



HZ-DE003

50MT 12V

SLOTS	25	L	484.00mm
SPLINES	19	O.D.	96.00mm
VOLTAGE	12V	SHAFT O.D.	15.80mm/17.30mm

REPLACING	-
SERVICING	-
APPLICATION	DELCO/FORD 50MT 12V



HZ-DE004

ORME: IM419

WAI: 61-122 42MT

SLOTS	25	L	451.00mm
SPLINES	19	O.D.	84.00mm
VOLTAGE	12V	SHAFT O.D.	15.80mm/14.20mm

REPLACING	DELCO/FORD: 1887989 1987989
SERVICING	10478802 10478803 10478824 10478894 1990337 1990348 1990349 1990352 1990354 1990358 1990363 1990365 1990374 1990375 1990377 1990379
APPLICATION	DELCO/FORD 42MT

◀◀ DELCO



HZ-DE005

ORME: IM421

WAI: 61-123 42MT

SLOTS	25	L	451.00mm
SPLINES	19	O.D.	84.00mm
VOLTAGE	24V	SHAFT O.D.	15.80mm/14.20mm

REPLACING	DELCO/FORD: 10499063 1988435 CATERPILLAR: 7T3276
SERVICING	10478836 10478892 10478998 1990344 1990350 1990367 1990378 1990453 1990456 1993802 1993808 1993940 1993945 1993998 1993999
APPLICATION	DELCO/FORD 42MT



HZ-DE006

ORME: IM418

WAI: 61-118 37MT

SLOTS	29	L	390.00mm
SPLINES	3	O.D.	84.00mm
VOLTAGE	12V	SHAFT O.D.	14.20mm/14.20mm

REPLACING	DELCO/FORD: 1985249 1987175
SERVICING	10478890 10478957 10479036 1990311 1990313 1993850 1993851 1993854 1993866 1993869 1993881 1993885 1993886 1993928 1993931
APPLICATION	DELCO/FORD 37MT

DELCO ▶▶

HZ-DE007

ORME: IM420
WAI: 61-119 37MT

SLOTS	29	L	390.00mm
SPLINES	3	O.D.	84.00mm
VOLTAGE	24V	SHAFT O.D.	14.20mm/14.20mm

REPLACING	DELCO/FORD: 1988322		
SERVICING	10478814 10478819 10478960 1990330 1990498 1990499 1993732 1993742 1993901 1993902 1993903 1993905 1993918 1993953 1993954		
APPLICATION	DELCO/FORD 37MT		



HZ-DE008

ORME: IM409
WAI: 61-120 40MT

SLOTS	25	L	467.00mm
SPLINES	19	O.D.	85.00mm
VOLTAGE	12V	SHAFT O.D.	15.80mm/14.20mm

REPLACING	CATERPILLAR: 5L8733 7L6587 DELCO/FORD: 1945906 1952530 1961320		
SERVICING	1114051 1114052 1114054 1114055 1114056 1114070 1114073 1114078 1114080 1114083 1114087 1114091 1114096 1114098 1114099 1114105		
APPLICATION	DELCO/FORD 40MT		

◀◀ **DELCO**

HZ-DE009

ORME: IM410
WAI: 61-121 40MT

SLOTS	25	L	467.00mm
SPLINES	19	O.D.	85.00mm
VOLTAGE	24V	SHAFT O.D.	15.80mm/14.20mm

REPLACING	CATERPILLAR: 4M1868 DELCO/FORD: 1945500 1948506 1948508		
SERVICING	1113818 1113824 1113831 1113842 1113849 1113850 1113855 1113856 1113872 1113898 1113905 1113914 1113917 1113920 1113923 1113938		
APPLICATION	DELCO/FORD 40MT		



HZ-DE010

WAI: 61-144 41MT

SLOTS	29	L	391.00mm
SPLINES	19	O.D.	82.00mm
VOLTAGE	24V	SHAFT O.D.	15.80mm/14.20mm

REPLACING	CATERPILLAR: 3E7855 DELCO/FORD: 10472559		
SERVICING	10478815 10478817 10479013 10479172		
APPLICATION	DELCO/FORD 41MT		

DELCO ▶▶

HZ-DE011

WAI: 61-143 41MT

SLOTS	29	L	391.00mm
SPLINES	19	O.D.	82.00mm
VOLTAGE	12V	SHAFT O.D.	15.80mm/14.20mm

REPLACING	DELCO/FORD:10473852
SERVICING	-
APPLICATION	DELCO/FORD 41MT



HZ-DE012

ORME: IM3018 WAI: 61-8401

SLOTS	23	L	177.00mm
SPLINES	8	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	17.00mm/10.00mm

REPLACING	10457117 10457622
SERVICING	10457366 10479600 10479605 10479608 10479611 10479612 10479616 10479629 1113272 1113277 1113291 LNS2840
APPLICATION	DELCO/FORD 28MT



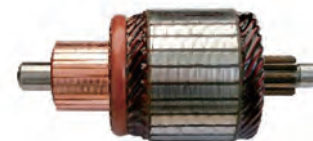
◀◀ DELCO

HZ-DE013

ORME: IM3066 WAI: 61-210

SLOTS	28	L	129.00mm
SPLINES	11	O.D.	55.00mm
VOLTAGE	12V	SHAFT O.D.	9.99mm/11.93mm

REPLACING	E2TZ11005A E90FAA E90Z1005A E90Z11005A F2PZ11005A
SERVICING	93BB11000KA 93BB11000KB
APPLICATION	DELCO/FORD



HZ-DE014

WAI: 61-211

SLOTS	28	L	127.00mm
SPLINES	11	O.D.	55.00mm
VOLTAGE	12V	SHAFT O.D.	9.99mm/11.93mm

REPLACING	SM482
SERVICING	-
APPLICATION	DELCO/FORD

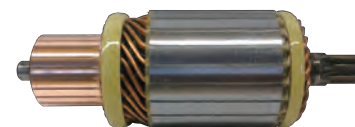


HZ-DE015

ORME: IM3019 WAI: 61-8400

SLOTS	23	L	177.00mm
SPLINES	8	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	17.00mm/10.00mm

REPLACING	10456466
SERVICING	10479604 10479606 10479607 10479613 10479614 10479615 10479617 10479618 10479619 10479620 10479628 10479630 1113266 1113267
APPLICATION	DELCO/FORD 28MT



DELCO ▶▶

HZ-DE016



WAI: 61-152

SLOTS	21	L	197.00mm
SPLINES	20T	O.D.	76.30mm
VOLTAGE	24V	SHAFT O.D.	12.00mm/15.00mm

REPLACING	10511750 10516269
SERVICING	19011507 19011509,19011511 19011522 19011523 19011524 19011527 8200041
APPLICATION	DELCO/FORD 39MT

HZ-DE017

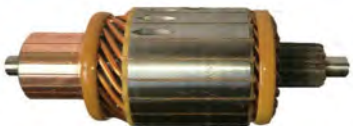


WAI: 61-151

SLOTS	21	L	196.00mm
SPLINES	14T	O.D.	68.00mm
VOLTAGE	12V	SHAFT O.D.	12.00mm/12.00mm

REPLACING	-
SERVICING	-
APPLICATION	DELCO/FORD 39MT

HZ-DE018



ORME: IM3115

SLOTS	21	L	196.00mm
SPLINES	14T	O.D.	68.00mm
VOLTAGE	12V	SHAFT O.D.	12.00mm/12.00mm

REPLACING	-
SERVICING	-
APPLICATION	DELCO 39MT

◀◀ DELCO

HZ-DE019



ORME: IM3116

SLOTS	21	L	196.00mm
SPLINES	14T	O.D.	68.00mm
VOLTAGE	24V/7.0kW	SHAFT O.D.	12.00mm/12.00mm

REPLACING	M106X45071
SERVICING	M9T80472 M9T82171 M9T82479
APPLICATION	DELCO 39MT

HZ-DE020

WAI: 61-107



SLOTS	23	L	281.00mm
SPLINES	3	O.D.	74.00mm
VOLTAGE	12V	SHAFT O.D.	9.99mm/11.93mm

REPLACING	10470773 10496043 10498863 1940624 1965724 1970548 D4111 D4121 D4124 D4143 D4159
SERVICING	1107368 1108420 1108429 1108430 1108500 1108505 1108788 1109062 1998317
APPLICATION	DELCO 10MT FORD

NIKKO ▶▶

HZ-NI001

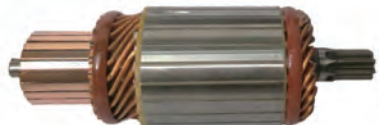


ORME: IM3009 WAI: 61-8408

SLOTS	23	L	191.00mm
SPLINES	11	O.D.	59.60mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/20.00mm

REPLACING	0231000161 1231000160 7231000190 7231000220
SERVICING	0230001160 0230001170 0230001173 0230001190 0230001231 0230001240 0230001270 0230001290 0230001293 0230001360 0230001410 0230001413
APPLICATION	NIKKO

HZ-NI002

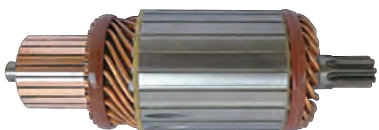


ORME: IM3051 WAI: 61-8404

SLOTS	23	L	180.50mm
SPLINES	8	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	17.00mm/8.00mm

REPLACING	7231000070
SERVICING	0230001030 0230001031 0230001033 0230001050 0230001060 0230001061 0230001070 0230001071 0230001080 0230001082 0230001100 0230001310
APPLICATION	ISUZU

HZ-NI003



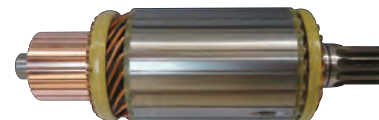
ORME: IM3052

SLOTS	23	L	180.50mm
SPLINES	8	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	17.00mm/8.00mm

REPLACING	7231000090
SERVICING	0230001010 0230001020 0230001040 0230001300
APPLICATION	NIKKO

◀◀ NIKKO

HZ-NI004



ORME: IM3084 WAI: 61-8406

SLOTS	21	L	214.00mm
SPLINES	9T	O.D.	65.00mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/20.00mm

REPLACING	KD0231000251 0231000251 7231000310
SERVICING	0230003150 0230003160 0230003163 0230003170 0230003173 0230003180 0230003186 0230003200
APPLICATION	NIKKO KOMATSU

HZ-NI005



ORME: IM3030 WAI: 61-8405

SLOTS	21	L	218.00mm
SPLINES	9T	O.D.	74.50mm
VOLTAGE	24V/7.5kW	SHAFT O.D.	-

REPLACING	KOMATSU: KD123000120 NIKKO: 231000121 1231000120 1811210330 7231000040 7231000290
SERVICING	0230006070 0230006071 0230006072 0230006091 0230006103 0230006140 0230006150 0230006170 0230006181 0230006222 0230006310 0230006470
APPLICATION	NIKKO KOMATSU

HZ-NI006



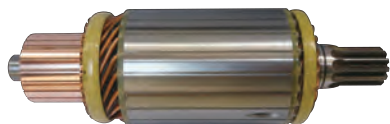
ORME: IM3054 WAI: 61-8407

SLOTS	21	L	210.00mm
SPLINES	9T	O.D.	74.50mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	231000230 0231000231
SERVICING	0230006212 0230006232 0230006251 0230006341 0230006512 0230006523 0230006524 0230006531 0230006544 0230006552 0230006601 0230006612
APPLICATION	NIKKO

NIKKO ▶▶

HZ-NI007



ORME: IM3048

SLOTS	21	L	227.00mm
SPLINES	11T	O.D.	74.00mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	510001910
SERVICING	-
APPLICATION	NIKKO

HZ-NI008

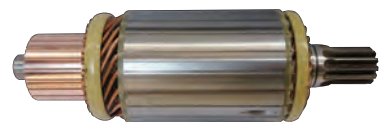


ORME: IM3113

SLOTS	21	L	185.00mm
SPLINES	8T	O.D.	48.60mm
VOLTAGE	24V/2.8kW	SHAFT O.D.	-

REPLACING	0231000171 1231000170 7231000140 7231000171 7231000171 7231000250
SERVICING	0230000040 0230000042 0230000060 0230000063 0230000100 0230000180
APPLICATION	MITSUBISHI 4D95

HZ-NI009



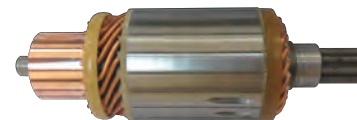
ORME: IM3105

SLOTS	21	L	212.00mm
SPLINES	10T	O.D.	74.50mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	0231000430
SERVICING	0230007731
APPLICATION	NIKKO

◀◀ NIKKO

HZ-NI010

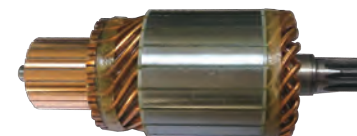


HZ2815

SLOTS	21	L	228.00mm
SPLINES	12T	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	15.00mm/30.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-NI011



ORME: IM3054 WAI: 61-8407

SLOTS	21	L	210.00mm
SPLINES	9	O.D.	74.50mm
VOLTAGE	24V/7.5kW	SHAFT O.D.	-

REPLACING	0231000230 0231000231
SERVICING	0230006212 0230006232 0230006251 0230006251 0230006341 0230006523
APPLICATION	NIKKO

SAWAFUJI ▶▶

HZ-SA001



ORME: IM3076

SLOTS	25	L	160.00mm
SPLINES	8	O.D.	58.00mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	132007701X0
SERVICING	-
APPLICATION	SAWAFUJI

HZ-SA002



ORME: IM3134

SLOTS	23	L	164.50mm
SPLINES	9T	O.D.	54.00mm
VOLTAGE	24V/4.5kW	SHAFT O.D.	-

REPLACING	132012100X0
SERVICING	J08C
APPLICATION	J08C

HZ-SA003



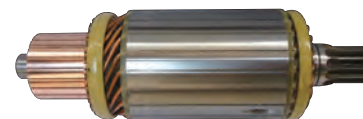
ORME: IM3077

SLOTS	25	L	170.00mm
SPLINES	8	O.D.	58.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	281601530 132009800X0
SERVICING	-
APPLICATION	SAWAFUJI HINO

◀◀ SAWAFUJI

HZ-SA004

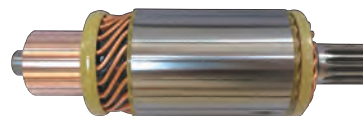


ORME: IM3085

SLOTS	21	L	206.00mm
SPLINES	12	O.D.	65.00mm
VOLTAGE	24V	SHAFT O.D.	15.00mm/25.00mm

REPLACING	NISSAN:2330299216 SAWAFUJI:132009700X0 TOYOTA:281601560
SERVICING	03506020110 03506020140 03506020149 03506020233 03506020240 03506020248 03506020250 03506020258 03506020260 03506020261
APPLICATION	NISSAN SAWAFUJI TOYOTA

HZ-SA005



ORME: IM3118

SLOTS	21	L	215.00mm
SPLINES	14	O.D.	65.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	HINO:281601330 NISSAN:2331099117 SAWAFUJI:132005901X0
SERVICING	03506020016 03506020020 03506020036 03506020037 03506020040 03506020050 03506020060 03506020080 03516020013 03516020022
APPLICATION	HINO NISSAN SAWAFUJI

HZ-SA006



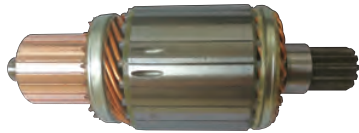
ORME: IM3060

SLOTS	21	L	218.00mm
SPLINES	12T	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	15.00mm/30.00mm

REPLACING	HINO 281601460 SAWAFUJI 132007800X0
SERVICING	03507020224 03507020234 03507020245 03507020265 03507020273 03507020350 03507020360 03507020370
APPLICATION	SAWAFUJI HINO

SAWAFUJI ▶▶

HZ-SA007

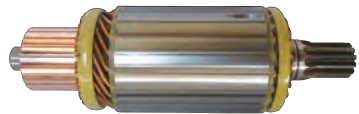


ORME: IM3086

SLOTS	21	L	206.00mm
SPLINES	12T	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	15.00mm/30.00mm

REPLACING	HINO 281601551 SAWAFUJI 132010000X0
SERVICING	3507020329
APPLICATION	SAWAFUJI HINO

HZ-SA008



ORME: IM3085-12V

SLOTS	21	L	206.00mm
SPLINES	12T	O.D.	65.00mm
VOLTAGE	12V	SHAFT O.D.	15.00mm/25.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

HZ-SA009



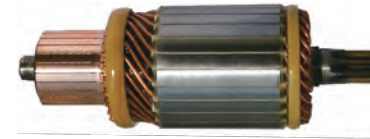
WAI: J08E

SLOTS	23	L	149.50mm
SPLINES	9T	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	12.00mm/9.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

◀◀ SAWAFUJI

HZ-SA010



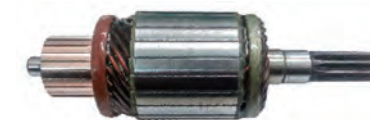
ORME: IM3076A

SLOTS	25	L	156.00mm
SPLINES	9	O.D.	58.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	-
SERVICING	-
APPLICATION	SAWAFUJI

◀◀ FORD

HZ-FD001



WAI: 61-212

SLOTS	23	L	180.00mm
SPLINES	9	O.D.	53.80mm
VOLTAGE	12V/3.0kW	SHAFT O.D.	10.00mm/17.00mm

REPLACING	-
SERVICING	-
APPLICATION	Ford 3.0kW OSGR Starters



BOSCH ▶▶

HZ-BO001



ORME: IM89

SLOTS	21	L	292.50mm
SPLINES	10T	O.D.	75.00mm
VOLTAGE	12V	SHAFT O.D.	12.50mm/14.00mm

REPLACING	72383801
SERVICING	63217108 63217112 63217171 63217401 MT71N MT74A
APPLICATION	BOSCH 208 SERIES

HZ-BO002



ORME: IM324

SLOTS	21	L	292.50mm
SPLINES	10T	O.D.	75.00mm
VOLTAGE	12V	SHAFT O.D.	12.50mm/14.00mm

REPLACING	16360277
SERVICING	11130117 11130119 11139123 11130203 AZJ3105 AZJ3544 11130386 11130432
APPLICATION	ISKRA

HZ-BO003



ORME: IM179

SLOTS	21	L	285.00mm
SPLINES	10T	O.D.	74.80mm
VOLTAGE	12V	SHAFT O.D.	12.50mm/14.00mm

REPLACING	2004004090 2004014951
SERVICING	0001362600 0001362601
APPLICATION	-

◀◀ BOSCH

HZ-BO004



ORME: IM182 IM162 IM198 IM270
WAI: 61-9104

SLOTS	21	L	290.00mm
SPLINES	10T	O.D.	74.80mm
VOLTAGE	12V	SHAFT O.D.	12.50mm/14.00mm

REPLACING	2004004092 2004014952 2004004074
SERVICING	0001362034 0001362035 0001362036 0001362037 0001362039 0001362040 0001362041 0001362042 0001362043 0001362045 0001362046 0001362048
APPLICATION	BOSCH 262 SERIES

HZ-BO005



ORME: IM326

SLOTS	21	L	335.00mm
SPLINES	10T	O.D.	75.00mm
VOLTAGE	12V	SHAFT O.D.	12.50mm/14.00mm

REPLACING	16360402
SERVICING	11130179 11130201 11130254 11130366 11130402 11130403 11130408 11130409 11130410 11130411 11130412 11130419
APPLICATION	ISKRA

HZ-BO006



ORME: IM175 WAI: 61-9100

SLOTS	21	L	337.00mm
SPLINES	10T	O.D.	75.00mm
VOLTAGE	12V	SHAFT O.D.	12.50mm/14.00mm

REPLACING	16360325 2004004003 2004004010 2004014060 2004014960 9001141143 16360325
SERVICING	0001367001 0001367002 0001367004 0001367005 0001367006 0001367007 0001367008 0001367009 0001367010 0001367011 0001367012 0001367013
APPLICATION	BOSCH 367 SERIES ISKRA

BOSCH ▶▶

HZ-BO007



ORME: IM173 WAI: 61-9121

SLOTS	21	L	312.00mm
SPLINES	10T	O.D.	74.80mm
VOLTAGE	12V	SHAFT O.D.	12.50mm/14.00mm

REPLACING	2004004076 2004004091 2004004094 2004004096 2004014053 2004014953
SERVICING	0001362051 0001362052 0001362063 0001362064 0001362082 0001362093 0001362096 0001362097 0001362300 0001362301 0001362302 0001362303
APPLICATION	BOSCH 362 SERIES

HZ-BO008



ORME: IM2132

SLOTS	23	L	148.00mm
SPLINES	11T	O.D.	59.00mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	1004011208
SERVICING	0001109015 0001109045 0001109052 0001109055 0001109062 0001109068 0001109201 0001109202 0001109203 0001109205 0001109250 0001109258
APPLICATION	BOSCH 109 Series

HZ-BO009



ORME: IM2114

SLOTS	23	L	149.00mm
SPLINES	16T	O.D.	58.80mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	1004011074 1004011087
SERVICING	0001109011 0001109056 0001109059 0001109060 0001109064 0001109065 0001125001 0001125002 0001125003 0001125004 0001125005 0001125006
APPLICATION	BOSCH 125 SERIES

◀◀ BOSCH

HZ-BO010



ORME: IM2120

SLOTS	23	L	149.00mm
SPLINES	13T	O.D.	59.00mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	1004011072 1004011088 1004011220 F010AL1014
SERVICING	0001109014 0001109018 0001109025 0001109026 0001109028 0001109029 0001109030 0001109031 0001109033 0001109034 0001109035 0001109036
APPLICATION	BOSCH 109 SERIES

HZ-BO011



ORME: IM2136

SLOTS	23	L	169.00mm
SPLINES	16	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	6033AD0285 6033AD4013 6033AD4080 9003334039 DAF:1638782
SERVICING	0001231001 0001231002 0001231003 0001231004 0001231005 0001231006 0001231007 0001231008 0001231009 0001231010 0001231011 0001231012
APPLICATION	BOSCH

HZ-BO012



ORME: IM105 WAI: 61-9124

SLOTS	29	L	255.00mm
SPLINES	-	O.D.	83.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	2004005023 2004005024
SERVICING	0001417001 0001417002 0001417005 0001417006 0001417007 0001417008 0001417012 0001417013 0001417014 0001417015 0001417016 0001417018
APPLICATION	BOSCH 417 SERIES

BOSCH ▶▶

HZ-BO013



ORME: IM122 WAI: 61-9113

SLOTS	29	L	235.00mm
SPLINES	-	O.D.	83.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	BOSCH: 2004005022 2004005037 2004005046 2004005153 ISKRA: 16360333
SERVICING	0001414001-4022 0001415001-5027 0001416001-6083
APPLICATION	BOSCH 414,415,416 SERIES

HZ-BO014



ORME: IM124 WAI: 61-9112

SLOTS	29	L	270.00mm
SPLINES	-	O.D.	83.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	BOSCH: 2004005025 2004005071 2004005151 ISKRA: 16360068
SERVICING	0001410015 0001410016 0001410017 0001410019 0001410021 0001410022 0001410024 0001410026 0001410027 0001410029 0001410032 0001410034
APPLICATION	BOSCH 410 411 417 SERIES

HZ-BO015



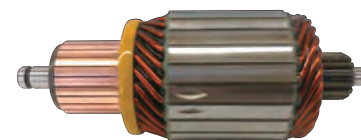
ORME: IM166

SLOTS	33	L	337.00mm
SPLINES	10T	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	200404032 2004004033 2004004035 2004004038 2004004308 2004014075
SERVICING	0001368002-8088 0001368081-8088 0001368305
APPLICATION	BOSCH 368 SERIES

◀◀ BOSCH

HZ-BO016

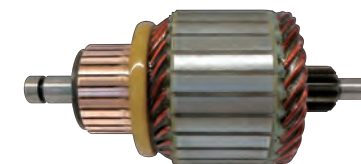


ORME: IM2112,IM2116,IM2119 WAI: 61-9129

SLOTS	28	L	123.00mm
SPLINES	11T	O.D.	55.00mm
VOLTAGE	12V	SHAFT O.D.	8.00mm/9.97mm

REPLACING	1004011039 1004011042 1004011062 1004011068 1004011086
SERVICING	0001107003 0001107004 0001107005 0001107006 0001107007
APPLICATION	BOSCH

HZ-BO017



BO017

SLOTS	25	L	154.00mm
SPLINES	14T	O.D.	56.50mm
VOLTAGE	12V	SHAFT O.D.	9.97mm/8.12mm

REPLACING	-
SERVICING	-
APPLICATION	-

MARELLI ▶▶

HZ-MA001



ORME: IM7

SLOTS	21	L	202.00mm
SPLINES	12T	O.D.	52.00mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/10.00mm

REPLACING	83225127 83225727 83225937 83226536 83226811 86226811
SERVICING	63101000 63101002 63102000 63102003 63102004 63102007 63102008 63103002 63103003 63103007 63103008 63192000 63201008 63222889
APPLICATION	FIAT/MARELLI: E80, E80E

HZ-MA002



ORME: IM74

SLOTS	33	L	296.00mm
SPLINES	12T	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	72387301
SERVICING	4752403 63217201 63217225 MT72A
APPLICATION	FIAT/MARELLI: MT72A

HZ-MA003



ORME: IM96

SLOTS	33	L	292.00mm
SPLINES	12T	O.D.	74.80mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	72161601 8190403
SERVICING	63217226 MT72AB
APPLICATION	FIAT/MARELLI: MT72AB

◀◀ MARELLI

HZ-MA004



ORME: IM92

SLOTS	23	L	292.00mm
SPLINES	12T	O.D.	75.00mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	72163701
SERVICING	63217126 63217148 63217154 63217156 63217158 63217163 63217186 MT71 MT71AB MT71DB MT71L MT71TA MT74BA MT74DA MT74G MT74H MT74L
APPLICATION	FIAT/MARELLI: MT71/MT4BA

HZ-MA005



ORME: IM98

SLOTS	21	L	216.00mm
SPLINES	12T	O.D.	52.00mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	83220031 83225372 9941307
SERVICING	63222831 63222832 63222833 63222836 63222837 63222838 63222897 63223031 63223032 63223033 63223034
APPLICATION	FIAT/MARELLI: E80

HZ-MA006



ORME: IM319

SLOTS	23	L	318.00mm
SPLINES	12T	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	72313561000
SERVICING	-
APPLICATION	MARELLI

LUCAS ▶▶

HZ-LU001
ORME:IM222
WAI:61-9206 M45G



SLOTS	23	L	302.00mm
SPLINES	12	O.D.	75.00mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	Landrover:607754 Lucas: 54247379 54292953 60251462 TIB108
SERVICING	FIAT/MARELLI: 63227475, 63227478, 63227483, 63227416, 63227417 63227484 63227470, 63227408, 63227409, 63227412, 63227415 LUCAS: 26238M/Q, 26248M, 26249, 26249A, 26260, 26260E, 26213 26213A, 26215E, 26215H, 26238D/F, 26238J/L
APPLICATION	LUCAS M45G

HZ-LU002
ORME:IM211
WAI:61-9205 M127



SLOTS	21	L	302.00mm
SPLINES	12	O.D.	84.00mm
VOLTAGE	12V	SHAFT O.D.	16.97mm/12.65mm

REPLACING	FIAT/MARELLI: 54292376 LUCAS: 26253757, 54268382, 54269954, 54292376, 60251456, TJB111, TJB113, TJB114
SERVICING	FIAT/MARELLI: 63227547 63227553 63227554 63227559 63227565 63227568 LUCAS : 27503A 27503A/D 27504 27504A 27504A/B 27505 27501B 27501E 27502 27502A 27502A/D 27503 27500 27500A 27500A/J 27501 27501A/B 27501A/E
APPLICATION	LUCAS M127

◀◀ LUCAS

HZ-LU003
ORME:IM202
WAI:61-9204 M50 Long



SLOTS	21	L	329.00mm
SPLINES	12	O.D.	84.00mm
VOLTAGE	12V	SHAFT O.D.	16.97mm/12.65mm

REPLACING	54243592 60251459 TJB104
SERVICING	26234 26234A 26234A/D 26234A/K 26234H 26234J 26234K 26284 26284A/E 26284D/E 26336 26336A/R 26337 26337A/B 26337A/H
APPLICATION	LUCAS M50 Long

OIL PUMP AND WINCH MOTOR ▶▶

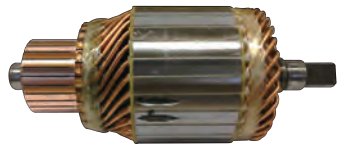
OIL PUMP STARTER



SLOTS	29	L	201.70mm
SPLINES	-	O.D.	73.68mm
VOLTAGE	24V	SHAFT O.D.	14.25mm/14.25mm

REPLACING	-
SERVICING	-
APPLICATION	-

OIL PUMP AND WINCH MOTOR ▶▶



HZ-WM001

SLOTS	29	L	177.00mm
SPLINES	-	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	-
SERVICING	-
APPLICATION	-



HZ-WM002

SLOTS	29	L	161.00mm
SPLINES	-	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	-
SERVICING	-
APPLICATION	-



HZ-WM003

SLOTS	29	L	190.00mm
SPLINES	-	O.D.	75.00mm
VOLTAGE	24V	SHAFT O.D.	-

REPLACING	-
SERVICING	-
APPLICATION	-

◀◀ DOMESTIC DIESEL SERIES



273

SLOTS	23	L	177.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	12.00mm/17.00mm

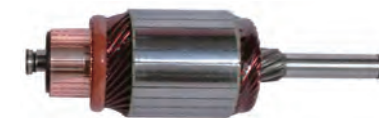
REPLACING	-
SERVICING	-
APPLICATION	273 SERIES



414

SLOTS	29	L	191.00mm
SPLINES	-	O.D.	52.80mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	-
SERVICING	-
APPLICATION	AIR-COOLED DIESEL ENGINE 414



414

SLOTS	29	L	185.5mm
SPLINES	-	O.D.	52.80mm
VOLTAGE	12V	SHAFT O.D.	-

REPLACING	-
SERVICING	-
APPLICATION	AIR-COOLED DIESEL ENGINE 414

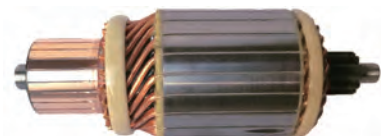
DOMESTIC DIESEL SERIES ▶▶



M105

SLOTS	21	L	195.50mm
SPLINES	14	O.D.	68.00mm
VOLTAGE	24V	SHAFT O.D.	12.00mm/12.00mm

REPLACING	-
SERVICING	-
APPLICATION	M105 SERIES



2800

SLOTS	23	L	175.00mm
SPLINES	12	O.D.	62.50mm
VOLTAGE	24V	SHAFT O.D.	12.00mm/8.00mm

REPLACING	-
SERVICING	-
APPLICATION	2800 SERIES

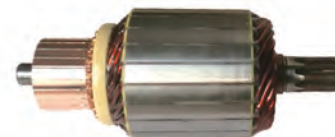


273

SLOTS	23	L	177.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	12.00mm/17.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

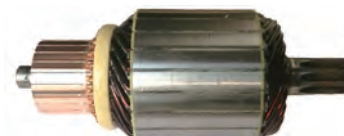
◀◀ DOMESTIC DIESEL SERIES



1315-12V

SLOTS	23	L	160.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	12V	SHAFT O.D.	10.00mm/17.00mm

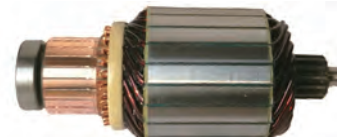
REPLACING	-
SERVICING	-
APPLICATION	1315 SERIES



1315-24V

SLOTS	23	L	160.00mm
SPLINES	9	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	10.00mm/17.00mm

REPLACING	-
SERVICING	-
APPLICATION	1315 SERIES



157B

SLOTS	23	L	154.50mm
SPLINES	14	O.D.	60.00mm
VOLTAGE	24V	SHAFT O.D.	9.00mm/10.00mm

REPLACING	-
SERVICING	-
APPLICATION	-

COMMUTATOR ▶▶

◀◀ COMMUTATOR



HZ-CR01

O.D.1	1.39.00mm	L	25.5mm
O.D.2	42.00mm	SLOTS	29

HZ-CR02

O.D.1	2.37.20mm	L	40.10mm
O.D.2	39.50mm	SLOTS	23

HZ-CR05

O.D.1	36.30mm	L	24.10mm
O.D.2	39.50mm	SLOTS	32

HZ-CR06

O.D.1	21.60mm	L	25.18mm
O.D.2	47.60mm	SLOTS	16



HZ-CR03

O.D.1	29.30mm	L	24.90mm
O.D.2	46.00mm	SLOTS	29

HZ-CR04

O.D.1	29.30mm	L	26.60mm
O.D.2	46.00mm	SLOTS	25

HZ-CR07

O.D.1	7.48.30mm	L	34.90mm
O.D.2	-	SLOTS	32

HZ-CR08

O.D.1	32.60mm	L	34.20mm
O.D.2	49.90mm	SLOTS	23

SHAFT ▶▶



HZ-ST01

LENGTH	215.50mm
O.D	15.00mm/25.00mm
TEETH	14



HZ-ST02

LENGTH	148.00mm
O.D	9.00mm/15.00mm
TEETH	9



HZ-ST03

LENGTH	193.00mm
O.D	12.00mm/18.00mm
TEETH	10



HZ-ST04

LENGTH	164.00mm
O.D	8.00mm/10.00mm
TEETH	21



HZ-ST05

LENGTH	208.00mm
O.D	10.50mm/13.00mm
TEETH	18



HZ-ST06

LENGTH	152.00mm
O.D	12.00mm/14.30mm
TEETH	9



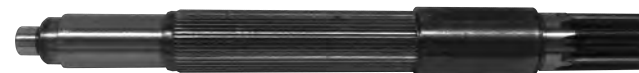
HZ-ST07

LENGTH	165.00mm
O.D	12.00mm/20.00mm
TEETH	11



HZ-ST08

LENGTH	217.00mm
O.D	15.00mm/26.00mm
TEETH	12



HZ-ST09

LENGTH	180.00mm
O.D	8.00mm/16.80mm
TEETH	11



HZ-ST10

LENGTH	178.00mm
O.D	-
TEETH	-



HZ-ST11

LENGTH	177.00mm
O.D	10.00mm/9.00mm
TEETH	13



HZ-ST12

LENGTH	150.00mm
O.D	9.00mm/12.00mm
TEETH	10



HZ-ST13

LENGTH	164.00mm
O.D	12.00mm/14.00mm
TEETH	9

◀◀ SHAFT