

Supplement for

Denso Hair Pin Alternator Parts



Metro Auto Industrial Inc.

Toll Free: 800-263-8761

**www.metroautoinc.com
info@metroautoinc.com**

21-Drive End Housing



21-82152

DE Housing

110 Amp, 128.5mm Stator OD

Used on: Toyota

Replaces:

OE: 104210-146

Lester: 11577

Ref:

Photo
Available Soon

21-82162

DE Housing

210 Amp, 138.5mm Stator OD

Used on: BMW

Replaces:

OE: 104210-625, 104210-658

Lester: 11751, 11791

Ref:



21-82165

DE Housing

80 Amp, 110.8mm Stator OD

Used on: Toyota Yaris

Replaces:

OE: 104210-8180, 104210-8400

Lester: 11203, 11505

Ref:



21-82160

DE Housing

175-200 Amp, 138.5mm Stator OD

Used on: Ford, Lincoln

Replaces:

OE: 104210-030, 656, 657, 104211-031

Lester: 11664, 11665

Ref:



21-82163

DE Housing

140 Amp, 128.5mm Stator OD

Used on: Lincoln

Replaces:

OE: 104210-321

Lester: 11000

Ref: AE-0323

Photo
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21-82166

DE Housing

140 Amp, 128.5mm Stator OD

Used on: Buick

Replaces:

OE: 104210-436, 454, 330, 331

Lester: 11035, 11036, 11180

Ref:

Photo
Available Soon

21-82161

DE Housing

170-210 Amp, 138.5mm Stator OD

Used on: BMW

Replaces:

OE: 104210-605, 607, 624, 650, 651, 652, 675

Lester: 11496, 11712, 11750, 11752, 11753, 11951

Ref:

Photo
Available Soon

21-82164

DE Housing

160 Amp, 128.5mm Stator OD

Used on: Chrysler, Jeep

Replaces:

OE: 421000-082

Lester: 12886

Ref:

Photo
Available Soon

21-82167

DE Housing

175 Amp, 138.5mm Stator OD

Used on: Ford Mustang

Replaces:

OE: 104210-684

Lester:

Ref: PIC 920-3453

21-Drive End Housing

**Photo
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21-82168

DE Housing

135 Amp, 128.5mm Stator OD

Used on: Acura, Honda

Replaces:

OE: 104211-3470

Lester:

Ref: PIC 290-5653

**Photo
Available Soon**

21-82171

DE Housing

150 Amp, 128.5mm Stator OD

Used on: GM Corvette

Replaces:

OE: 104211-8360

Lester: 11794

Ref: PIC 290-6005

DE has Rivet hole

**Photo
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21-82174

DE Housing

180 Amp, 138.5mm Stator OD

Used on: Ram Promaster

Replaces:

OE: 421000-7120

Lester: 11792

Ref:

**Photo
Available Soon**

21-82169

DE Housing

150 Amp, 128.5mm Stator OD

Used on: Buick, Cadillac, Chevy, GMC

Replaces:

OE: 104210-196

Lester: 11682

Ref: PIC 290-6018

**Photo
Available Soon**

21-82172

DE Housing

130 Amp, 128.5mm Stator OD

Used on: Toyota Tacoma

Replaces:

OE: 104211-3761

Lester:

Ref: PIC 920-3519

**Photo
Available Soon**

21-82175

DE Housing

Amp, 128.5mm Stator OD

Used on: Hyundai, Kia

Replaces:

OE: 104211-8790

Lester: 11953

Ref: PIC 290-696

**Photo
Available Soon**

21-82170

DE Housing

135 Amp, 128.5mm Stator OD

Used on: Honda Civic

Replaces:

OE: 104211-391, 104211-396

Lester: 11930, 11931

Ref:



21-82173

DE Housing

Amp, 138.5mm Stator OD

Used on: Toyota

Replaces:

OE:

Lester:

Ref: PIC

**Photo
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21-82176

DE Housing

150 Amp, 128.5mm Stator OD

Used on: Ford Escape

Replaces:

OE: 104210-233

Lester: 1636

Ref: PIC 290-6320

21-Drive End Housing

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21-82177

DE Housing

140 Amp, 128.5mm Stator OD

Used on: Dodge Dart, Fiat 500

Replaces:

OE: 104211-8000

Lester: 11594

Ref:

**Photo
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21-82178

DE Housing

180 Amp, 138mm Stator OD

Used on: Lexus

Replaces:

OE: 104210-6130, 104210-6781

Lester: 11328, 11761

Ref:

**Photo
Available Soon**

21-82179

DE Housing

170 Amp, 138mm Stator OD

Used on: Ford Fusion

Replaces:

OE: 104210-6690

Lester: 11666

Ref: 11666 has two type,
104210-6690 (170 Amp), 21-82179
104210-2910 (150 Amp), 21-82176

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22-Slip Ring End Housing

**Photo
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22-82158

SRE Housing

130 Amp, 128.5mm Stator OD

Used on: Lexus

Replaces:

OE: 104210-4000, 104210-4001

Lester: 11197

Ref:



22-82160

SRE Housing

175-200 Amp, 138.5mm Stator OD

Used on: Ford, Lincoln

Replaces:

OE: 104210-030, -656, -657;
104211-030

Lester: 11164, 11165

Ref:

**Photo
Available Soon**

22-82161

SRE Housing

170-210 Amp, 138.5mm Stator OD

Used on: BMW

Replaces:

OE: 104210-605, 607, 624, 650, 651,
652, 675

Lester: 11496, 11712, 11750, 11752,
11753, 11951

Ref:

**Photo
Available Soon**

22-82162

SRE Housing

210 Amp, 138.5mm Stator OD

Used on: BMW

Replaces:

OE: 104210-6250, 104210-6251,
104210-6254, 104210-6580

Lester: 11751, 11752, 11791

Ref:



22-82163

SRE Housing

140 Amp, 128.5mm Stator OD

Used on: Lincoln

Replaces:

OE: 104210-321

Lester: 11000

Ref:

**Photo
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22-82164

SRE Housing

160 Amp, 128.5mm Stator OD

Used on: Chrysler, Jeep

Replaces:

OE: 421000-082

Lester: 12886

Ref:



22-82165

SRE Housing

80 Amp, 110.8mm Stator OD

Used on: Toyota Yaris

Replaces:

OE: 104210-8180, 104210-8400

Lester: 11203, 11505

Ref:

**Photo
Available Soon**

22-82166

SRE Housing

140 Amp, 128.5mm Stator OD

Used on: Buick

Replaces:

OE: 104210-330, -331, -436, -454

Lester: 11035, 11036, 11180

Ref:

**Photo
Available Soon**

22-82167

SRE Housing

175 Amp, 138.5mm Stator OD

Used on: Ford Mustang

Replaces:

OE: 104210-684

Lester:

Ref: PIC 920-3453

22-Slip Ring End Housing

**Photo
Available Soon**

22-82168

SRE Housing

135 Amp, 128.5mm Stator OD

Used on: Acura, Honda

Replaces:

OE: 104211-347

Lester:

Ref: PIC 290-5653

**Photo
Available Soon**

22-82172

SRE Housing

135 Amp, 128.5mm Stator OD

Used on: Toyota Tacoma

Replaces:

OE: 104211-3761

Lester:

Ref: PIC 920-3519

**Photo
Available Soon**

22-82175

SRE Housing

150 Amp, 128.5mm Stator OD

Used on: Hyundai, Kia

Replaces:

OE: 104211-8790

Lester: 11953

Ref: PIC 290-696

**Photo
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22-82169

SRE Housing

150 Amp, 128.5mm Stator OD

Used on: Buick, Cadillac, Chevy, GMC

Replaces:

OE: 104210-196

Lester: 11682

Ref: PIC 290-6018

**Photo
Available Soon**

22-82173

SRE Housing

130 Amp, 138.5mm Stator OD

Used on:

Replaces:

OE:

Lester:

Ref:

**Photo
Available Soon**

22-82176

SRE Housing

150 Amp, 128.5mm Stator OD

Used on: Ford Escape

Replaces:

OE: 104210-233, 104210-291

Lester: 11636, 11666

Ref: PIC 290-6320

**Photo
Available Soon**

22-82170

SRE Housing

135 Amp, 128.5mm Stator OD

Used on: Honda Civic

Replaces:

OE: 104211-391, 104211-396

Lester: 11930, 11931

Ref:

**Photo
Available Soon**

22-82174

SRE Housing

180 Amp, 138.5mm Stator OD

Used on: RAM Promaster

Replaces:

OE: 421000-7120

Lester: 11792

Ref: PIC 290-6004

**Photo
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22-82177

SRE Housing

140 Amp, 128.5mm Stator OD

Used on: Dodge Dart, Fiat 500

Replaces:

OE: 104211-8000

Lester: 11594

Ref: PIC 290-5636

22-Slip Ring End Housing

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22-82178

SRE Housing

180 Amp, 138mm Stator OD

Used on: Lexus

Replaces:

OE: 104210-6130, 104210-678

Lester: 11328, 11761

Ref: PIC 290-5394, 290-5677

**Photo
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22-82179

SRE Housing

170 Amp, 138mm Stator OD

Used on: Ford Fusion

Replaces:

OE: 104210-6690, 104211-0270

Lester: 11666*, **11667 ?**

Ref: PIC 290-6389

11666 has two type,
104210-6690 (170 Amp), 21-82179
104210-2910 (150 Amp), 21-82176

22-Slip Ring End Housing

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27-Stator

**Photo
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27-82022H22
Stator-Modify
220 Amp, 128.5mm OD

Used on:

Replaces:

DIM: 128.5mm OD
100mm ID
32mm Thickness

OE:

Lester:

Ref:

Note: This is High Output Stator, special winding.



27-82022H27
Stator-Modify
270 Amp, 128.5mm OD

Used on:

Replaces:

DIM: 128.5mm OD
100mm ID
32mm Thickness

OE:

Lester:

Ref:

Note: This is High Output Stator, special winding.



27-82024H32-1
Stator-Modify
320 Amp, 138mm OD

Used on:

Replaces:

DIM: 138mm OD
109mm ID
34.7mm Thickness

OE:

Lester:

Ref:

Note: This is High Output Stator, special winding.

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30-82026

**Rotor - CW
12V, 130 Amp**

Replace:

Size: 93.4mm OD x 145mm OAL

Lester:

Note: Use with Stator 27-82026 or
27-82027



30-82027

**Rotor - CCW
12V, 160 Amp**

Replace:

Size: 99.5mm OD x 147mm OAL

Lester: 11109, 11584

OE: 104210-414, 104210-441,
421000-081

Note: This is CCW Rotor, used with
Stator 27-82020.
Pulley Nut use 85-82001-CCW

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30-82028

**Rotor - CW
12V, 320-340 Amp**

Replace:

Size: 109mm OD

Lester:

OE:

Note: 1.7 ohm.
This is High Output Rotor.
Used with 27-82024H32 Stator.

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30-82029

**Rotor - CW
12V, 270-300 Amp**

Replace:

Size: 99.5mm OD x 147mm OAL

Lester:

OE:

Note: 1.7 ohm.
This is High Output Rotor.
Used with 27-82022H27 Stator.

31-Rectifier



31-82040HD

Rectifier
134mm OD
M8x1.25x38mm Side Post
170-200 Amp, 12-80A Diodes
20/24V

Replace:

Lester:

Replaces:

Ref:

Note: This is for heavy duty use.



31-82046HD

Rectifier
134mm OD
M8x1.25x38mm Top Post
170-200 Amp, 12-80A Diodes
20/24V

Replace:

Lester:

Replaces:

Ref:

Note: This is for heavy duty use.

**Photo
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31-82061

Rectifier
117mm OD
M8x1.25 Side Post
150 Amp, 12-50A Diodes

Replace: 021580-6750

Lester: 11054

Replaces:

Ref: 104210-356, 104210-464
W065-255

Note:

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35-82118
Regulator
Square, 1-Pin, Top Post

Used on: Honda Accord

Replaces:

OE: 104211-827, 104211-830, 104211-839

Lester: 11670, 11671

Ref: W085-376A

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35-82119
Regulator
Oval, 2-Pin, Side Post
FR-L

Used on: Toyota

Replaces:

OE: 104211-330

Lester: 11776

Ref: W085-376A

42-Insulator



42-82080

**Insulator B+ Terminal-for Top
D Shape Interlock
M8 Post**

Dim: 14.39mm ID, 26.78mm OD
29.91mm H, 26.7mm Hole

Replaces:

OE: 104210-543

Lester: 11291

Ref:

Note:



42-82092

**Insulator B+ Terminal-for Top
D Shape Interlock
M8 Post**

Dim: 17.6mm ID x 26.9mm OD x
28.5mm H
19.8mm interlock OD

Replaces:

OE: 104210-656

Lester: 11665

Ref:

Note: with 2 slit, used with 46-82265
SRE Cover.



42-82090

**Insulator B+ Terminal-for Top
M8 Post**

Dim: 17.8mm ID, 19.7mm H

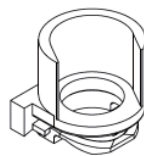
Replaces:

OE: 104210-607, 104210-625, 104210-
644

Lester: 11496, 11790, 1179

Ref:

Note:



42-82094

**Insulator B+ Terminal-for Side
D Shape Interlock
M8 Post**

Dim: 16.75mm ID x 28.05mm OAL

Replaces:

OE: 104210-2170

Lester: 11507

Ref: PIC 290-5438

Note:



42-82091

**Insulator B+ Terminal-for Top
D Shape Interlock
M8 Post**

Dim: 14mm ID x 24.75mm OD (middle)
x 25.8mm OAL
16.9mm interlock OD

Replaces:

OE:

Lester:

Ref:

Note:



42-82096

**Insulator B+ Terminal-for Top
M8 Post**

Dim:

Replaces:

OE: 104210-175, 104211-8000

Lester: 11585, 11594

Ref:

Note:

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46-SRE Cover



46-82248
SRE Cover

For:
DIM: 138mm OD
Replaces:
OE:
Lester:
Ref:
Note:



46-82251
SRE Cover

For:
DIM: 138mm OD
Replaces:
OE:
Lester:
Ref:
Note:



46-82262
SRE Cover

For: Buick
DIM: 128mm OD
Replaces:
OE: 104210-2250
Lester: 11367
Ref:
Note:



46-82249
SRE Cover

For:
DIM: 138mm OD
Replaces:
OE: 421000-713
Lester: 11793, 14027
Ref:
Note:



46-82260
SRE Cover

For:
DIM: mm OD
Replaces:
OE:
Lester:
Ref:
Note:



46-82263
SRE Cover

For: Buick
DIM: 128mm OD
Replaces:
OE: 104210-436
Lester: 11180
Ref:
Note: 11mm B+ Hole Height.
Similar to 46-82231, but 46-82231
is 15mm Height.



46-82250
SRE Cover

For:
DIM: 138mm OD
Replaces:
OE:
Lester:
Ref:
Note:



46-82261
SRE Cover

For: Fiat
DIM: 128mm OD
Replaces:
OE: 104210-1750, 104211-8000
Lester: 11585, 11594
Ref:
Note:



46-82264
SRE Cover

For: Hyundai, Kia
DIM: 138mm OD
Replaces:
OE: 104210-6191, 104210-6201
Lester: 11353, 11523
Ref:
Note:

46-SRE Cover



46-82265
SRE Cover

For: Ford
DIM: 138mm OD
Replaces:
OE: 104210-656, 104210-657;
104211-030, 104211-031
Lester: 11664, 11665
Ref:
Note: Insulator use 42-82092



46-82268
SRE Cover

For: GM
DIM: 128mm OD
Replaces:
OE: 104211-9110, 104211-8340
Lester: 14007
Ref:
Note:

TEMP. IMAGE
for Metro reference only
DO NOT send to customer



46-82272
SRE Cover

For: Land Rover
DIM: 138mm OD
Replaces:
OE: 104210-6420
Lester: 11762, 14106
Ref:
Note:



46-82266
SRE Cover

For: Buick, Cadillac, Chevy
DIM: 128mm OD
Replaces:
OE: 104210-1900, 104210-1901,
104210-1960, 104210-1961,
104210-1962,
Lester: 11681, 11682, 11780, 11795,
14883
Ref:
Note:



46-82269
SRE Cover

For: Alfa Romeo / Fiat - Europe Car
DIM: 117mm OD
Replaces:
OE: 102211-8280, 102211-8281,
102211-8310
Lester: 24062
Ref:
Note:

**Photo
Available Soon**

46-82273
SRE Cover

For: Jaguar
DIM: 128mm OD
Replaces:
OE: 104210-5050
Lester: 11512
Ref:
Note:



46-82267
SRE Cover

For: Chevy
DIM: 138mm OD
Replaces:
OE: 104210-6010
Lester: 11251
Ref:
Note:

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46-82270
SRE Cover

For: Fiat 500
DIM: mm OD
Replaces:
OE: 101210-1650
Lester: 11599
Ref:
Note:



46-82274
SRE Cover

For: Alfa Romeo, Fiat, Ford, Opel, Saab
DIM: 127.7mm OD
Replaces:
OE: 101210-0160, 101210-0161,
101210-0162, 102211-8651,
102211-8652, 102211-8660,
102211-8661, 102211-8662
Lester: 23807, 23808, 24006
Ref:
Note:

46-SRE Cover



46-82275

SRE Cover

For: Ford Mustang

DIM: 128.5mm OD

Replaces:

OE: 104210-2920, 104210-2940,
104210-2941, 104210-2942,
104210-2950, 104211-1450,
TN104211-1450

Lester: 11625, 11626, 11628, 11759

Ref:

Note:

6 & 10-Bearing & Misc. Parts



6-3034

Bearing-DE Housing

DIM: 17mm ID x 47mm OD x 14mm W

Replace: 949100-2790, -3980, -4440, 949100-5360

Ref:

Note: Similar to 6-30340K, but 6-30340K is Koyo brand.



46-82247

Tolerance Ring-SRE Housing

DIM: 35mm ID x 37mm OD, 13mm Height, 14mm Total Thick

Lester: 14486, 14487

Ref: AT-13366A

Note: Plastic material.



10-20214

(#279)

Bearing-SRE Housing

DIM: 15mm ID x 35mm OD x 13mm W

Replace: 949100-2790, 949100-3980, 949100-4440, 949100-5360, 949100-6730

Ref:

Note: Similar to 10-202140S, but 10-202140S is NSK brand.



10-30424

(#333)

Bearing-DE Housing

DIM: 17mm ID x 52mm OD x 16mm W

Replace: 949100-3330, 949100-4370, 949100-5010

Ref:

Note:

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