



COMPETITIVE EDGE



The “can use” application feature in our catalog allows practical consolidation of electrical units; giving distributor countermen and outside sales personnel additional chances to complete the sale.



All of our units have a 1 year/unlimited mileage warranty from the date of installation, matching OE programs for similar applications.



World American® customer support and tech services utilize highly qualified professionals to deliver the best knowledge and service in the industry.



Every single unit is tested to our rigorous internal standards. No unit is shipped that is not a proven performer!



All *World American*® heavy-duty starting motors are equipped with a ratchet design pinion gear for positive engagement starts every time.



Every *World American*® alternator is guaranteed to match or exceed the amperage output of the original design.



All *World American*® units are packaged with color-coded connections and easy to understand instructions. This attention to detail will reduce in large measure the amount of defect claims due to incorrect installation procedures.



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INSTALLATION GUIDES/WARRANTY

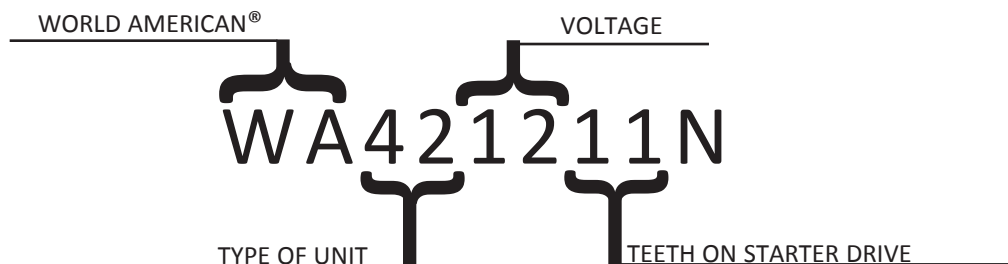
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PARTS LISTED IN THIS CATALOG ARE NOT NECESSARILY MANUFACTURED BY THE ORIGINAL EQUIPMENT MANUFACTURER AND ANY REFERENCE TO THE TRADEMARKS OR PART NUMBERS OF OTHERS ARE FOR CROSS REFERENCE INFORMATIONAL PURPOSES ONLY. THE PHOTOS PROVIDED HEREIN ARE PROVIDED ONLY FOR ILLUSTRATIVE PURPOSES. THE ACTUAL PRODUCTS SUPPLIED MAY DIFFER. THE TRADEMARKS OF OTHERS REFERRED TO HEREIN ARE OWNED BY THEIR RESPECTIVE COMPANIES AND ARE NOT AFFILIATED IN ANY WAY WITH MIDWEST TRUCK & AUTO PARTS, INC.™. WORLD AMERICAN®, MOTIVE GEAR® AND MOTIVE GEAR PERFORMANCE® ARE REGISTERED TRADEMARKS OF MIDWEST TRUCK & AUTO PARTS, INC.™. USE OF THE ® IN CONNECTION WITH A MARK OF MIDWEST TRUCK & AUTO PARTS, INC.™ INDICATES THAT THE MARK IS REGISTERED IN AT LEAST THE UNITED STATES. NO REPRESENTATION IS MADE WITH RESPECT TO THE SOURCE OF MANUFACTURE OF ANY PARTICULAR PART. WHILE EVERY EFFORT IS MADE TO PROVIDE ACCURATE INFORMATION, NO GUARANTEE IS PROVIDED AS TO THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. WE ARE NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. © 2008, MIDWEST TRUCK & AUTO PARTS, INC.™ ALL RIGHTS RESERVED.



HOW TO IDENTIFY - PART NUMBERS -

STARTERS



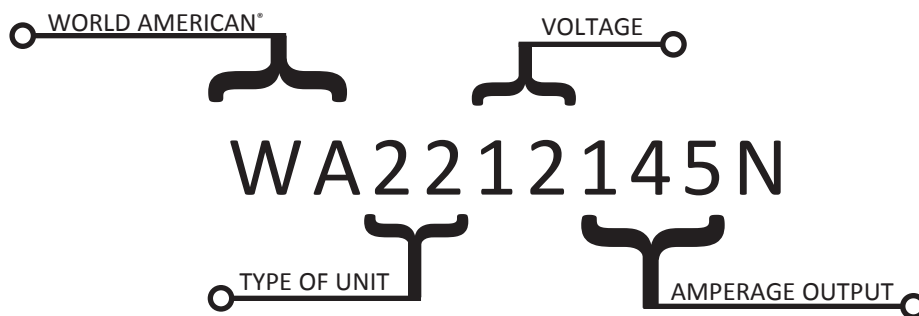
Corresponds to:

42MT™ - Style / 12V / 11 TOOTH

INTERCHANGE INFORMATION:

The numbers listed in this section are cross reference numbers for:
Dixie®, Wilson®, Popular OE, and Reman® OE

ALTERNATORS



Corresponds to:

22SI™ - Style / 12V / 145 AMP

INTERCHANGE INFORMATION:

The numbers listed in this section are cross reference numbers for:
Dixie®, Wilson®, Popular OE, and Reman® OE



VISUAL IDENTIFICATION - GUIDE -

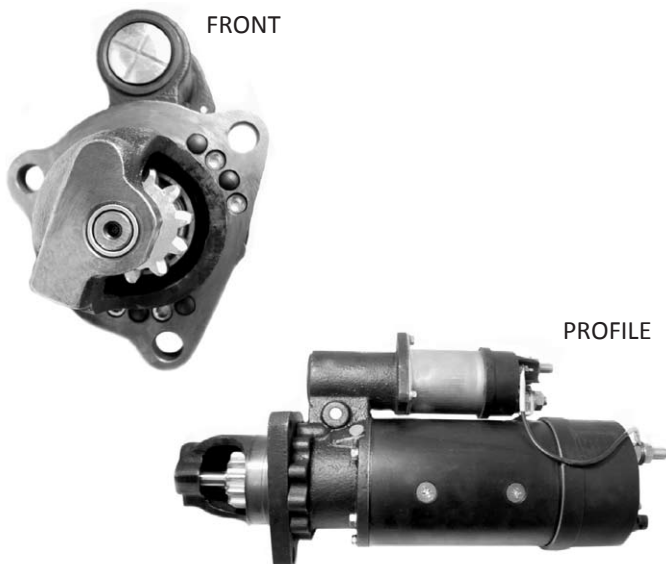
The World American® Electronic Component catalog was designed to assist distributor salespeople and their customers in easily identifying starters and alternators. Therefore, units are presented in a way that makes the proper selection accurate and simple.

STARTERS

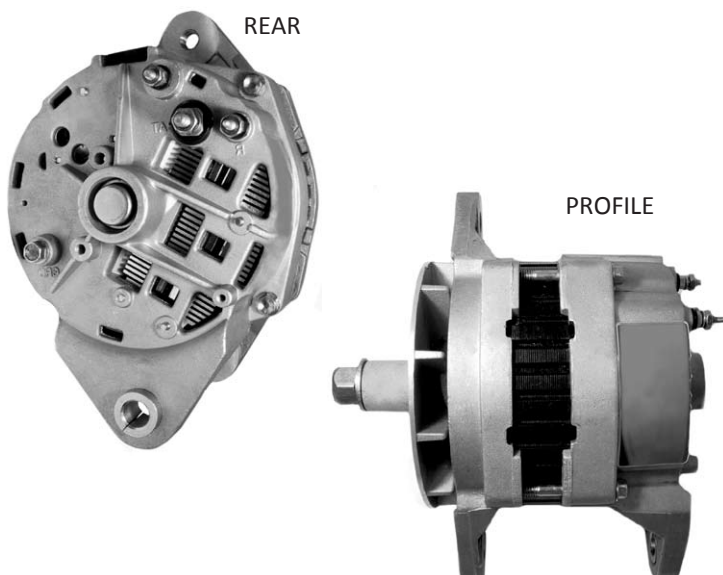
Starter pictures are presented in two views:

Front - This angle will always show the solenoid at the 12 o'clock position to illustrate the proper drive end rotation for installation efforts.

Profile - This angle will always show the unit from a side view, detailing the opening to the drive pinion.



ALTERNATORS



Alternator pictures are presented in two views:

Rear - This angle will always show the power and auxiliary terminal, or any plug detail, needed on lighter-duty units.

Profile - This angle will always show the unit relative to the mounting configuration.



GENERAL NOTES

GENERAL NOTE #1

When substituting alternators it is OK to replace a unit one for the other as long as the system voltage is the same (either 12 or 24 volt) and the replacement alternator is rated at the same or higher amperage output. For example: it is acceptable to replace an alternator with an output of 100 amps with one of 130 amps or higher as long as the unit supplied as the replacement is the same voltage. Doing this will not affect the wiring of the vehicle or connections to the battery or the accessory connections on the back of the alternator.

GENERAL NOTE #2

Pad type mountings are becoming more popular as they appear on the newer engines. The rules pertaining to amps and voltage when substituting these alternators are the same as in note #1. Some information relative to the mounting configurations is necessary. 22SI™ Style, 24SI™ Style and 110-555 Pad types all have the same mounting patterns and drill hole circumference. These units can be substituted for each other as long as the voltage and amp ratings are applied as in general note # 1. However the mounting pattern on part number 3412135P is slightly different and substituting this with other Pad type alternators is not recommended. One exception to this rule would be on DDA Series 60 engines that are supplied from the factory with an adapter bracket used to mount the 34SI™ Style pad mount alternator. In this case, the DDA bracket will allow a 22SI™ Style, 24SI™ Style or 110-555 Pad mount configuration to be used.

GENERAL NOTE #3

21SI™, 22SI™, 24SI™ Delco®-Style and 110-555 & JB type Leece-Neville® Style alternators using the standard SAE J-180 type of mounting may be substituted for each other as per general note # 1. It is very important however to recognize that some truck makers may mount these units differently. In most cases all the units noted have a top mounting ear that connects to a curved slide bracket and is pulled tight during installation to achieve the proper belt tension. However, in some cases, the truck makers have placed the OE alternator in a “C” bracket to help control vibration. In this case the Delco® 21SI™ Style, 22SI™ Style and 24SI™ Style units can be used as substitutes for each other but not for the Leece-Neville® units. In turn the 110-555 and JB Series Leece-Neville® Style units can be used as substitutes for each other but not for the Delco® Style units. The reason for this is caused by the centerline of the bolt holes in the front housing of the units being slightly different. The center to center bolt measurement of the Leece-Neville® Style is about 1/2 inch wider.

GENERAL NOTE #4

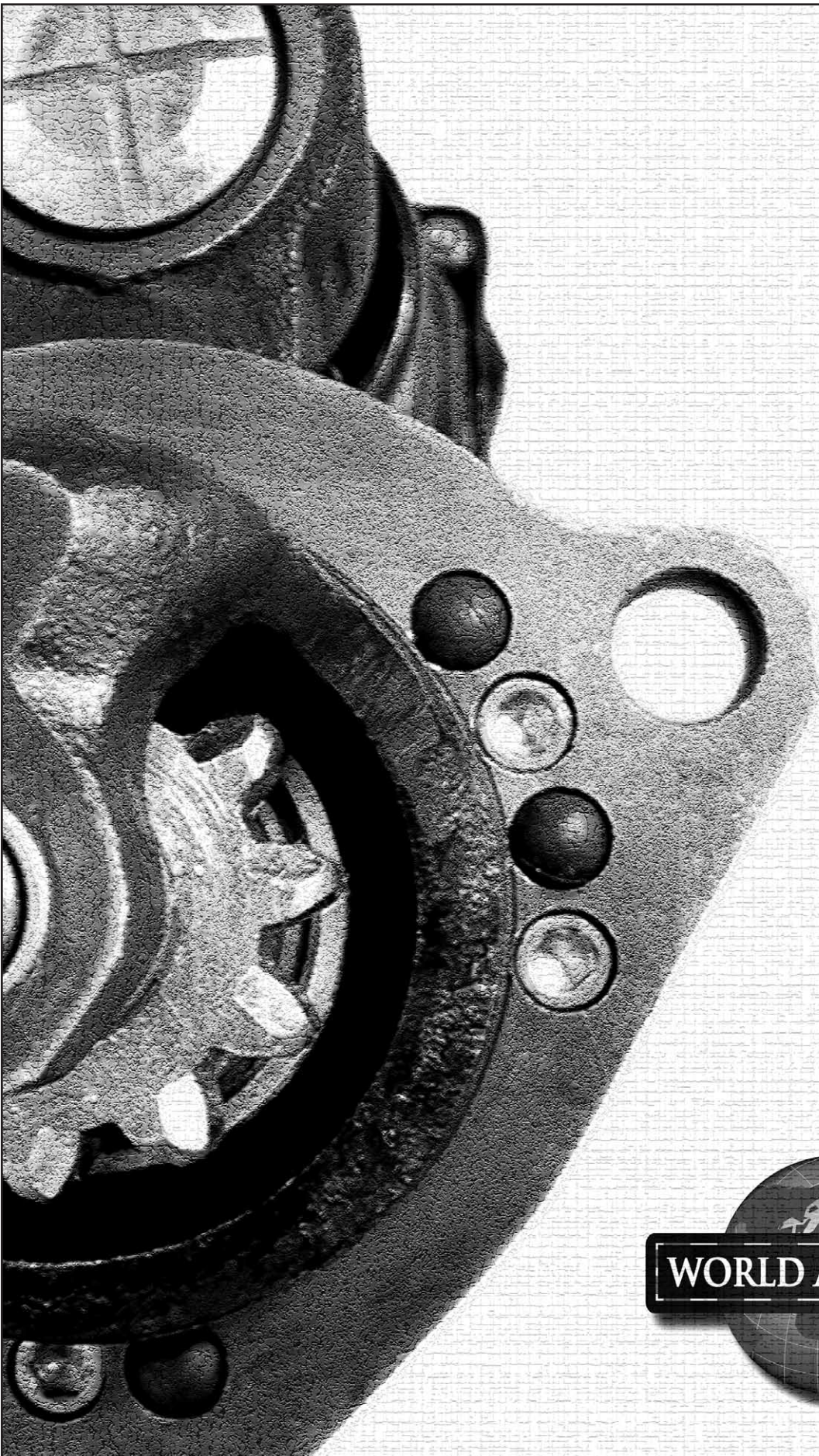
40MT™, 41MT™, 42MT™ and 50MT™ Delco® style starting motors are equipped with an adjustable drive (nose) housing. This design feature is incorporated into these units to accommodate the need for the motor body to be rotated in order for the solenoid to clear other engine components that may hinder the fit. Carefully done this is an acceptable practice by the end user. However, it is important to note that removing the drive housing to replace the pinion gear (from 11 to 12 tooth for example) is not recommended! The pinion gear in all of our motors has been calibrated to engage the engine flywheel perfectly. By removing the pinion gear this measurement is affected. The end result may be a torque failure of the drive, causing pieces of the starter to break and jam the flywheel motion. Every starting motor application in our catalog is supplied with the housing rotation set to the most popular aftermarket position. This will result in far fewer field adjustments.

GENERAL NOTE #5

Most, if not all, 41MT™ Style starting motors are used on mid-range diesel applications. These would include city delivery trucks made by Freightliner®, Mack®, Ford®, and GMC®.

GENERAL NOTE #6

Starting motors of this group are used primarily on fleet service vehicles equipped with Cummins®, International® or Ford® mid-range diesel engines.



REPLACEMENT STARTERS

WORLD AMERICAN®





MID-RANGE STARTERS

APPLICATION:
CHEVY® TYPE REPLACEMENT STARTING MOTORS

WA1210DEL



12V / 10 TOOTH / DELCO® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

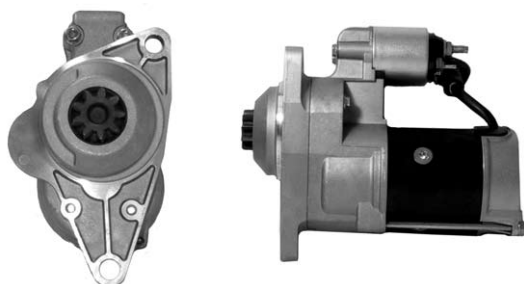
INTERCHANGE INFORMATION:

Dixie®: S-8213
Wilson®: 91-01-3927
Popular OE: 1113296
Reman®: 10465168

APPLICATION:

Delco®-type motor for Chevy® C&K, GMC®, Vans/PU
1995/2002 w/6.5L diesel engines
Fits both manual & automatic transmissions

WA1209HIT



12V / 9 TOOTH / HITACHI® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie®: S-8997
Wilson®: 91-25-1158
Popular OE: S14-100D

APPLICATION:

Hitachi®-type motor for Chevy®/GMC®, Vans/PU
2003/2004 w/6.6L diesel engines
Fits both manual & automatic transmissions

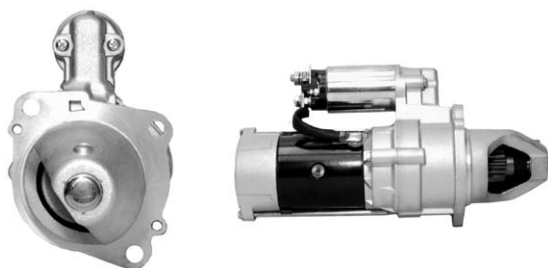


MID-RANGE STARTERS

APPLICATION:

FORD® TYPE REPLACEMENT STARTING MOTORS

WA1213MIT



12V / 13 TOOTH / MITSUBISHI® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie® : S-8150

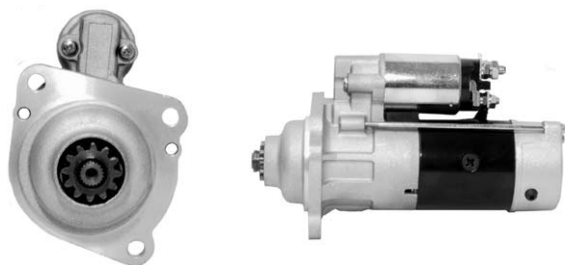
Wilson® : 91-27-3039

Popular OE: M3T90071

APPLICATION:

Mitsubishi® -type motor for Ford® Van/PU
1985/1994 w/7.3L diesel engines

WA1212MIT



12V / 12 TOOTH / MITSUBISHI® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie® : S-8423

Wilson® : 91-27-3156

Popular OE: M8T50071

APPLICATION:

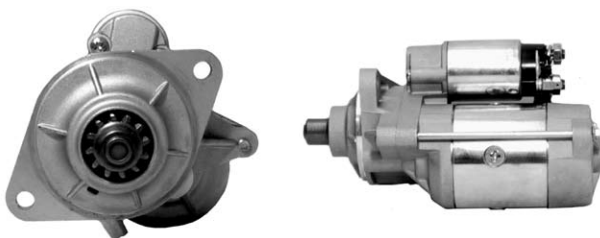
Mitsubishi® -type motor for Ford® Van/PU
1995/2000 w/7.3L diesel engines



MID-RANGE STARTERS

APPLICATION:
FORD® TYPE REPLACEMENT STARTING MOTORS

WA1212FOR



12V / 12 TOOTH / FORD® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

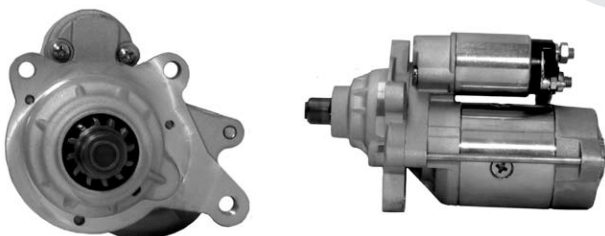
INTERCHANGE INFORMATION:

Dixie®: S-2099
Wilson®: 91-02-5901
Popular OE: 2C32-11002-AA

APPLICATION:

Ford®-type motor for Ford® Van/PU
2001/2003 w/7.3L diesel engines

WA1212FOR-1



12V / 12 TOOTH / FORD® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie®: S-2124
Wilson®: N/A
Popular OE: 3C3U-11000-AB/3C3U-11000-AC

APPLICATION:

Ford®-type motor for Ford® Van/PU
2003/2004 w/6.0L diesel engines

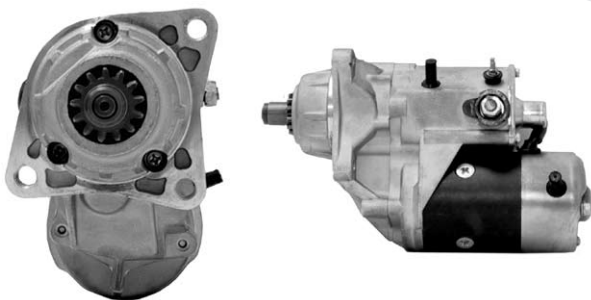


MID-RANGE STARTERS

APPLICATION:

DODGE® TYPE REPLACEMENT STARTING MOTORS

WA1213NIP



12V / 13 TOOTH / NIPPONDENSO® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie® : S-8544 / S-80039 / S-80074

Wilson® : 91-29-5245

Popular OE: 228000-229

APPLICATION:

Nippondenso®-type motor for Dodge® Ram
1994/2000 w/5.9L diesel engines



MID-RANGE MANUAL TRANSMISSION COMPONENTS

This is a valuable resource for quality manual transmission replacement components including: bearings, shafts, synchronizers, small parts kits and much more!

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www.worldamerican.com

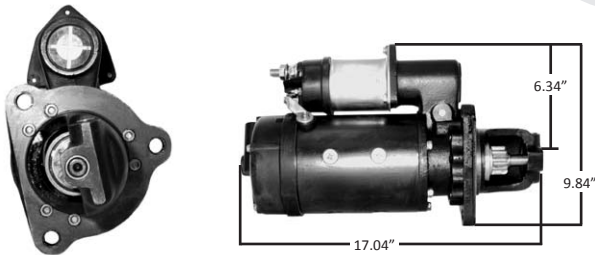
www.midwesttruck.com



MID-RANGE STARTERS

APPLICATION:
DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA411210



41MT™ STYLE / 12V / 10 TOOTH

GENERAL NOTES: Please read GENERAL NOTES #4 and #5 for this part (page 5)

SPECIAL NOTES: 3/8" mounting holes.

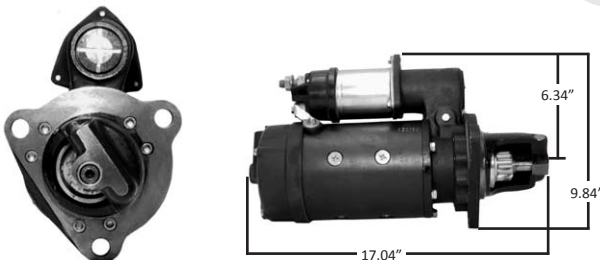
INTERCHANGE INFORMATION:

Dixie® : TS-1607
Wilson® : 91-01-4307
Popular OE: 1993963
Reman® OE: 10461098

APPLICATION:

GMC® Trucks with Cat 3116
Freightliner® Trucks with Cat 3126

WA411210-1



41MT™ STYLE / 12V / 10 TOOTH

GENERAL NOTES: Please read GENERAL NOTES #4 and #5 for this part (page 5)

SPECIAL NOTES: 1.) Solenoid terminals reversed. 2.) Off-set nose housing. 3.) Mounting holes are 5/8"

INTERCHANGE INFORMATION:

Dixie® : TS-1561
Wilson® : 91-01-4287
Popular OE: 1993854
Reman® OE: 10461058

APPLICATION:

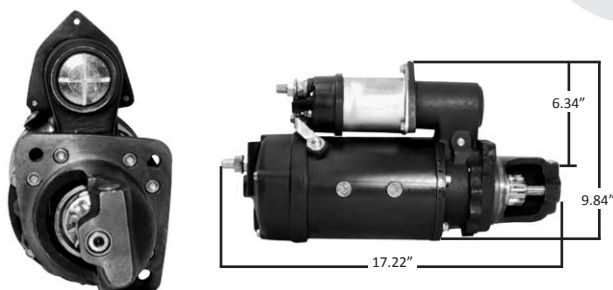
Ford® Trucks 6.6, 7.8L, Diesel



MID-RANGE STARTERS

APPLICATION:
DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA411210-2



41MT™ STYLE / 12V / 10 TOOTH

GENERAL NOTES: Please read GENERAL NOTES #4 and #5 for this part (page 5)

SPECIAL NOTES: 1.) Off-set nose housing. 2.) Ground stud in frame. 3.) Mounting holes are 5/8"

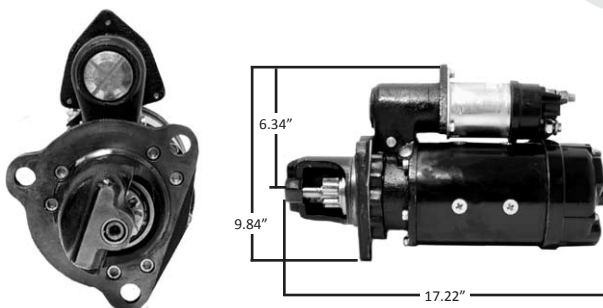
INTERCHANGE INFORMATION:

Dixie® : TS-1551
Wilson® : 91-01-4168
Popular OE: 1993850
Reman® OE: 10461044

APPLICATION:

GMC® & Chevy®
Ford®

WA411210-3



41MT™ STYLE / 12V / 10 TOOTH

GENERAL NOTES: Please read GENERAL NOTES #4 and #5 for this part (page 5)

SPECIAL NOTES: Mounting holes are 1/2"

INTERCHANGE INFORMATION:

Dixie® : TS-1547
Wilson® : 91-01-4140
Popular OE: 1993880
Reman® OE: 10461108

APPLICATION:

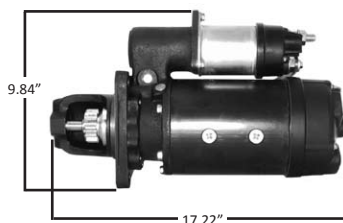
Ford®
Navistar®



MID-RANGE STARTERS

APPLICATION:
DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA411212



41MT™ STYLE / 12V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTES #4 and #5 for this part (page 5)

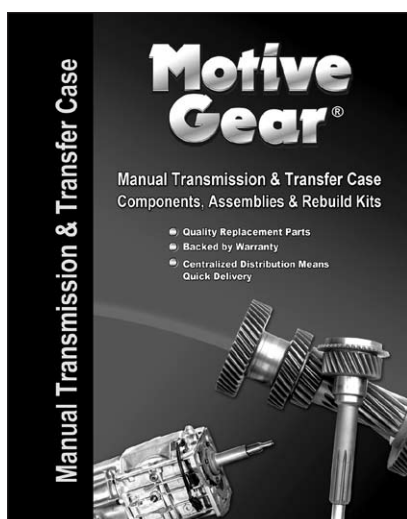
SPECIAL NOTES: Mounting holes are 5/8".

INTERCHANGE INFORMATION:

Dixie® : TS-1541
Wilson® : 91-01-4285
Popular OE: 1993871
Reman® OE: 10461089

APPLICATION:

Cummins®
Navistar®
Waukesha Motors®



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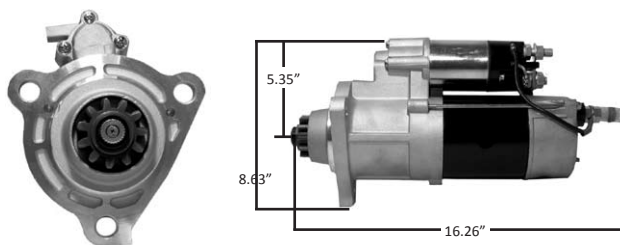
www.midwesttruck.com



HEAVY DUTY STARTERS

APPLICATION:
DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA391211



39MT™ STYLE / 12V / 11 TOOTH

INTERCHANGE INFORMATION:

Dixie® : TS-1679
Wilson® : 91-01-4487
Popular OE: 19011500
Reman® OE: 10461334

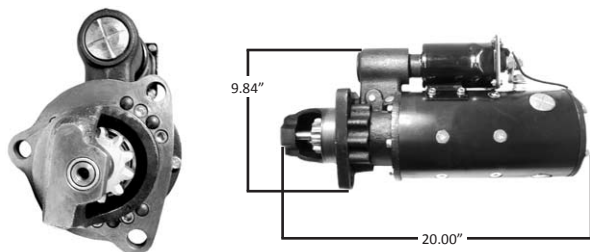
APPLICATION:

Most Current:
Freightliner®
Mack®

SPECIAL NOTES: Replaces Delco®'s newest heavy duty starting motor. This unit is an "open drive end" design.

WA401211N

REPLACES: WA1114098



40MT™ STYLE / 12V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie® : S-1107
Wilson® : 91-01-3701
Popular OE: 1114098
Reman® OE: 10461045

WORLD AMERICAN CAN USE:

WA421211
WA421211HSF

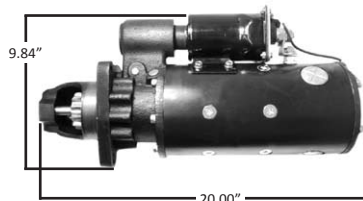


HEAVY DUTY STARTERS

APPLICATION:
DELCO®-TYPE STARTING MOTORS

WA401212N

REPLACES: WA1114156



40MT™ STYLE / 12V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

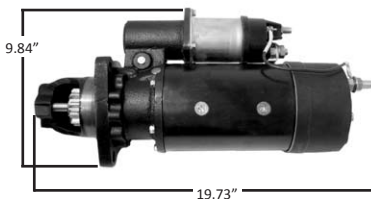
Dixie®: S-1132
Wilson®: 91-01-3702
Popular OE: 1114156
Reman® OE: 10461046

WORLD AMERICAN® CAN USE:

WA421212
WA421212HSF

WA421211N

REPLACES: WA1990352



42MT™ STYLE / 12V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: TS-1501
Wilson®: 91-01-4166
Popular OE: 1990483
Reman® OE: 10461052

WORLD AMERICAN® CAN USE:

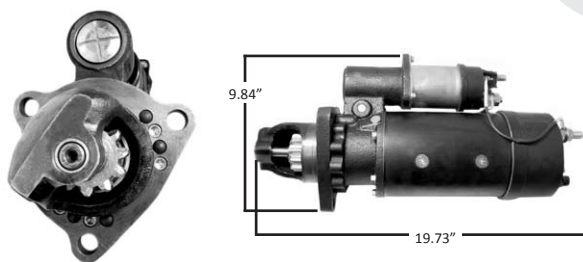
WA421211HSF



HEAVY DUTY STARTERS

APPLICATION:
DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA421211HSF



42MT™ STYLE / 12V / 11 TOOTH
Heat Sensitive Fuse Style

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: This starter motor is equipped with a Heat Sensitive Fuse style relay built into the field housing. This device is designed to interrupt power to the unit if continuous cranking overheats it to a point where it may be damaged. Once it cools off, the relay will allow the motor to be engaged once again.

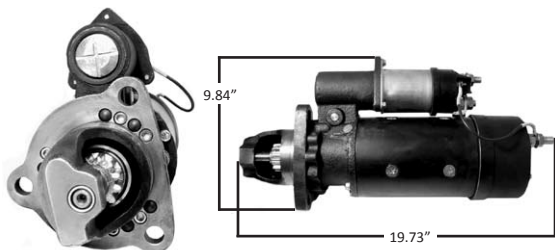
INTERCHANGE INFORMATION:

Dixie®: TS-1512
Wilson®: 91-01-4295
Popular OE: 1990355
Reman® OE: 10461028

WORLD AMERICAN® CAN USE:

WA421212N

REPLACES: WA1990353



42MT™ STYLE / 12V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: TS-1500
Wilson®: 91-01-4161
Popular OE: 1990429
Reman® OE: 10461100

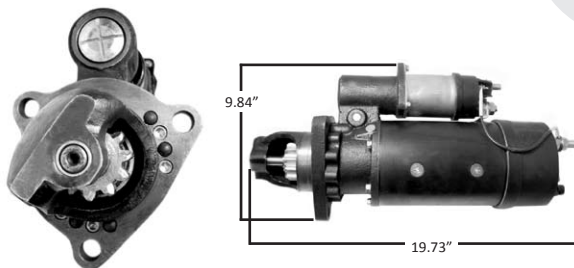
WORLD AMERICAN® CAN USE:
WA421212HSF



HEAVY DUTY STARTERS

APPLICATION:
DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA421212HSF



42MT™ STYLE / 12V / 12 TOOTH
Heat Sensitive Fuse Style

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: This starter motor is equipped with a Heat Sensitive Fuse style relay built into the field housing. This device is designed to interrupt power to the unit if continuous cranking overheats it to a point where it may be damaged. Once it cools off, the relay will allow the motor to be engaged once again.

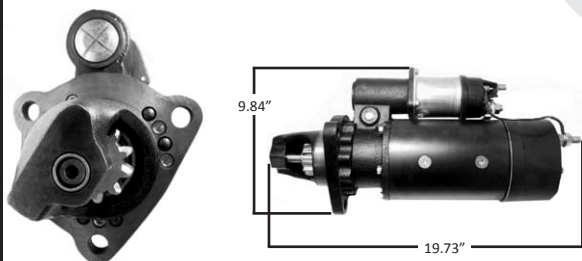
INTERCHANGE INFORMATION:

Dixie®: TS-1611
Wilson®: 91-01-4407
Popular OE: 1990406
Reman® OE: 10461233

WORLD AMERICAN® CAN USE:

WA422411N

REPLACES: WA1990456



42MT™ STYLE / 24V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: TS-1503
Wilson®: 91-01-4159
Popular OE: 1990456
Reman® OE: 10461068

WORLD AMERICAN® CAN USE:



HEAVY DUTY STARTERS

APPLICATION:

DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA422412N

REPLACES: WA1993804



42MT™ STYLE / 24V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: TS-1502

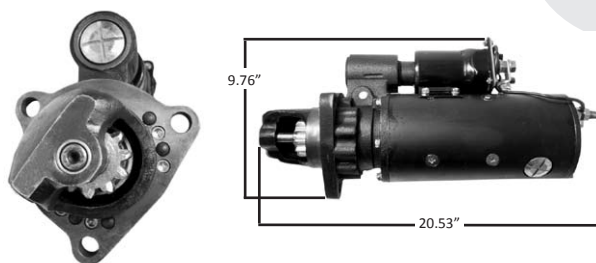
Wilson®: 91-01-4158

Popular OE: 1990453

Reman® OE: 10461025

WORLD AMERICAN® CAN USE:

WA501211N



50MT™ STYLE / 12V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: S-1293

Wilson®: 91-01-4107

Popular OE: 1109545

Reman® OE: 10461056

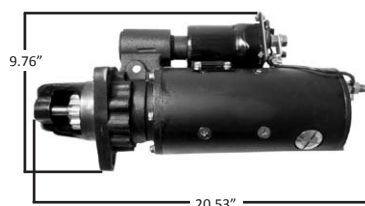
WORLD AMERICAN® CAN USE:



HEAVY DUTY STARTERS

APPLICATION:
DELCO®-TYPE REPLACEMENT STARTING MOTORS

WA502411



50MT™ STYLE / 24V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

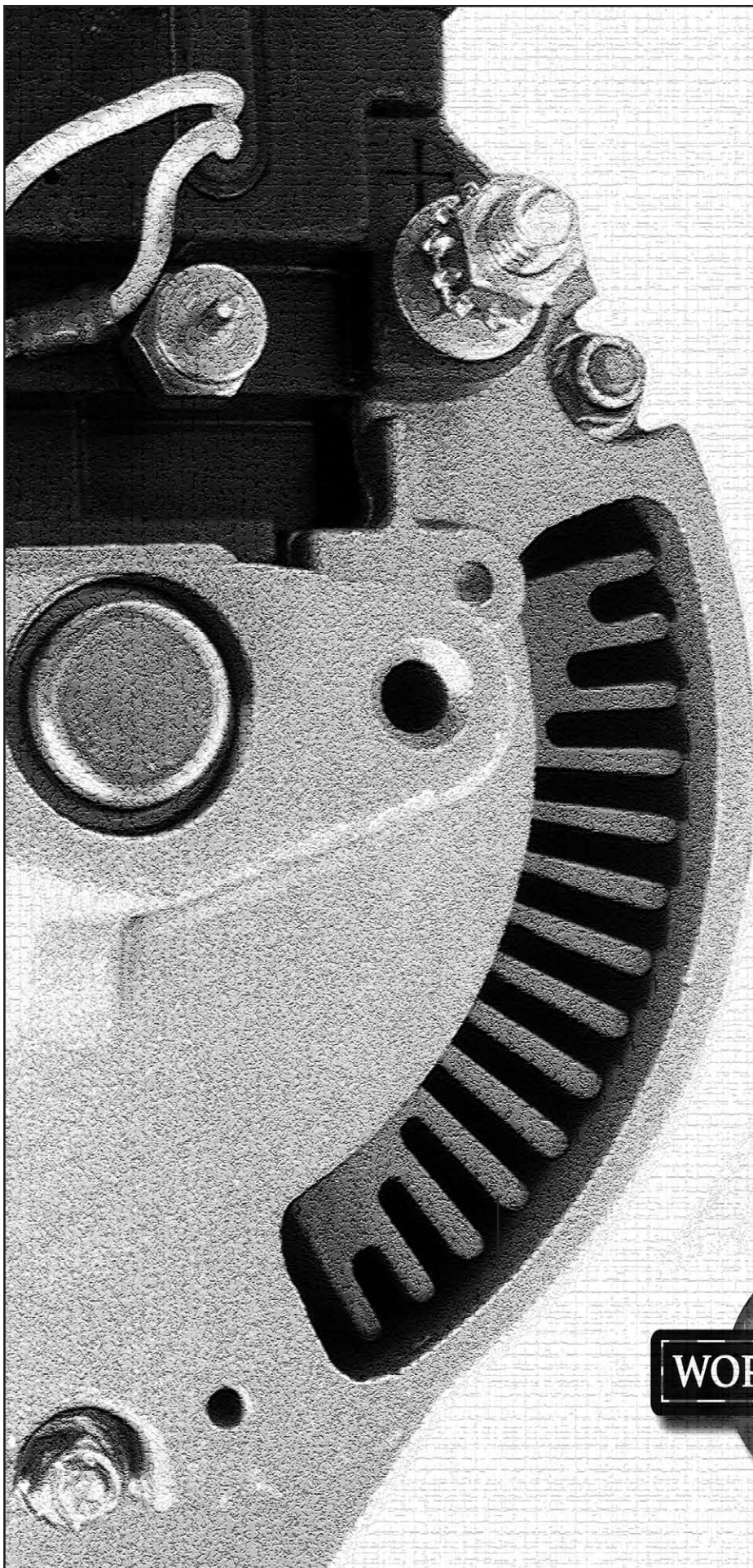
Dixie®: TS-1061
Wilson®: 91-01-3948
Popular OE: 1990250
Reman® OE: 10461057

WORLD AMERICAN® CAN USE:



REPLACEMENT ALTERNATORS

WORLD AMERICAN®





MID-RANGE ALTERNATORS

APPLICATION:
CHEVY® - TYPE REPLACEMENT ALTERNATORS

WA12105DEL



12V / 105A / DELCO® TYPE

INTERCHANGE INFORMATION:

Dixie®: A1448/A1467

Wilson®: 90-01-4245

Popular OE: 10480167

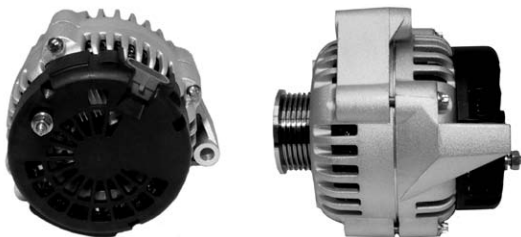
APPLICATION:

1999-2000 Chevy® C&K Series

6.5L Diesel w/Int. Fan

SPECIAL NOTES: PLUG #313

WA12105DEL-1



12V / 105A / DELCO® TYPE

INTERCHANGE INFORMATION:

Dixie®: A-1548

Wilson®: 90-01-4339

Popular OE: 10480326

APPLICATION:

2001-2002 Silverado

6.5L Diesel

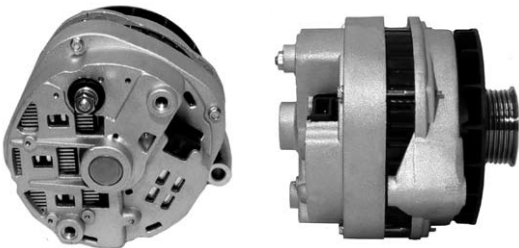
SPECIAL NOTES: PLUG #314



MID-RANGE ALTERNATORS

APPLICATION:
CHEVY® - TYPE REPLACEMENT ALTERNATORS

WA12124DEL



12V / 124A / DELCO® TYPE

INTERCHANGE INFORMATION:

Dixie®: A-1453
Wilson®: 90-01-4241
Popular OE: 10463636

APPLICATION:
1999-2000 Chevy® C&K Series
6.5L Diesel w/Ext. Fan

SPECIAL NOTES: PLUG #310

WA12140DEL



12V / 140A / DELCO® TYPE

INTERCHANGE INFORMATION:

Dixie®: A-1454
Wilson®: 90-01-4251
Popular OE: 10463686

APPLICATION:
2001-2002 Chevy® C&K Series
6.5L Diesel w/Ext. Fan
H.D. Option

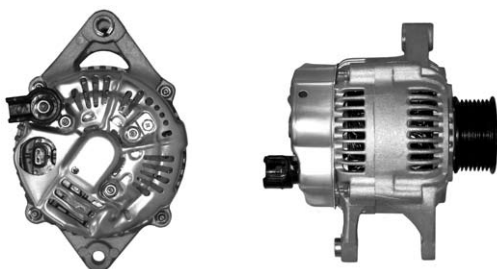
SPECIAL NOTES: PLUG #314



MID-RANGE ALTERNATORS

APPLICATION:
DODGE® - TYPE REPLACEMENT ALTERNATORS

WA12136BOS



12V / 136A / BOSCH® TYPE

INTERCHANGE INFORMATION:

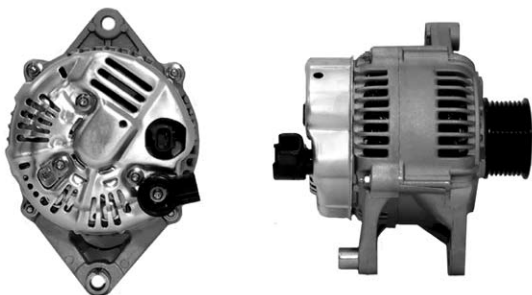
Dixie®: A-6347
Wilson®: 90-15-6310
Popular OE: 0-124-489-004

APPLICATION:

1999-2001 Dodge®
5.9L Diesel Engines

SPECIAL NOTES: PLUG #363. Verify type of alternator. This vehicle uses both units.

WA12136NIP



12V / 136A / NIPPONDENSO® TYPE

INTERCHANGE INFORMATION:

Dixie®: A-8781
Wilson®: 90-29-5357
Popular OE: 121000-428

APPLICATION:

1999-2001 Dodge® Diesel
5.9L - 359 Engines

SPECIAL NOTES: PLUG #314 w/Nippondenso® - Type. Verify type of alternator. This vehicle uses both units.



MID-RANGE ALTERNATORS

APPLICATION:

DODGE® - TYPE REPLACEMENT ALTERNATORS

WA12136NIP-1

COMING SOON!

12V / 136A / NIPPONDENSO® TYPE

INTERCHANGE INFORMATION:

Dixie®: A-8920

Wilson®: N/A

Popular OE: 121000-448

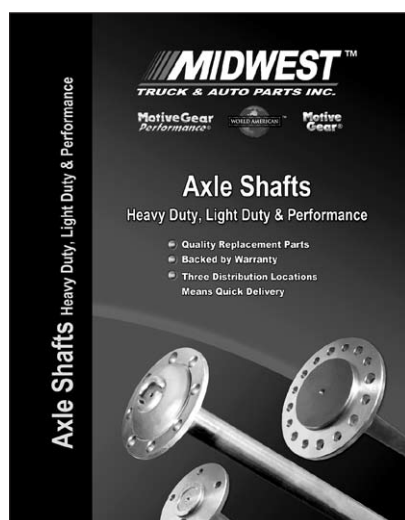
APPLICATION:

2002 Dodge®

5.9L-359 Diesel

Nippondenso® Unit

SPECIAL NOTES: PLUG #363. Verify type of alternator. This vehicle uses various types.



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MID-RANGE ALTERNATORS

APPLICATION:
FORD® - TYPE REPLACEMENT ALTERNATORS

WA12110FOR



12V / 110A / FORD® TYPE

INTERCHANGE INFORMATION:

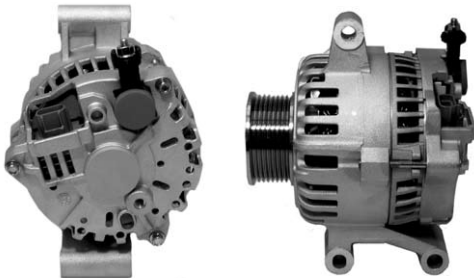
Dixie®: A-2024
Wilson®: 90-02-5092
Popular OE: F81Z-10346-EA

APPLICATION:

1999-2003 Ford® F-Series
7.3L Diesel w/Single Alt.

SPECIAL NOTES: PLUG #336. This is also used in dual alternator setups. This is the top position alternator.

WA12110FOR-1



12V / 110A / FORD® TYPE

INTERCHANGE INFORMATION:

Dixie®: A-2025
Wilson®: 90-02-5096
Popular OE: F81Z-10346-GA

APPLICATION:

1999-2003 Ford® F-Series
7.3L Diesel
w/Dual Alternator Setup

SPECIAL NOTES: PLUG #336. This is the bottom position in the dual setup. See WA12110FOR for top position.

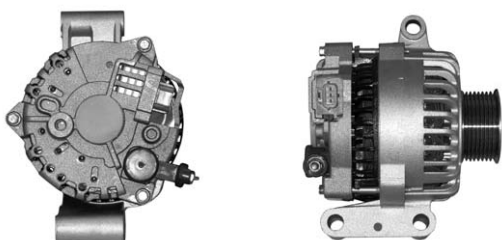


MID-RANGE ALTERNATORS

APPLICATION:

FORD® - TYPE REPLACEMENT ALTERNATORS

WA12105FOR



12V / 105A / FORD® TYPE

INTERCHANGE INFORMATION:

Dixie®: A2069

Wilson®: 90-02-5133

Popular OE: 4C3Z-10346-AA

APPLICATION:

2004 Ford® F-Series

6.0L Diesel w/Single Alt.

SPECIAL NOTES: PLUG #336

WAFORREG



INTERCHANGE INFORMATION:

Dixie: N/A

Wilson: N/A

Popular OE: F0PZ-10316-A

APPLICATION:

SPECIAL NOTES: Use with WA1290FOR alternator.



HEAVY DUTY ALTERNATORS

APPLICATION:
DELCO®-TYPE REPLACEMENT ALTERNATORS

WA201260



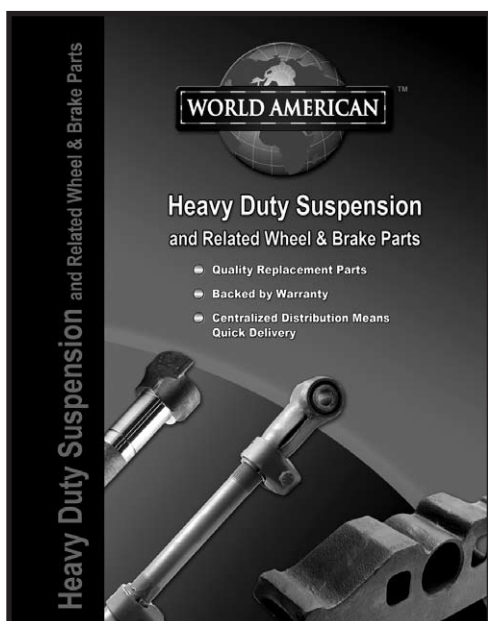
20SI™ STYLE / 12V / 60 AMP
"Brushless Type"

INTERCHANGE INFORMATION:

Dixie®: A-1118
Wilson®: 90-01-3127
Popular OE: 1117641
Reman® OE: 10459020

WORLD AMERICAN® CAN USE:
WA2212145
WA2212130
WA2112130

SPECIAL NOTES: 12-volt 20SI™ style units are not very popular; a very sure replacement application for this unit is WA2212130. The mounting configuration and size is the same and the higher amps gained by using a 22SI™ style unit is an advantage to the end user.



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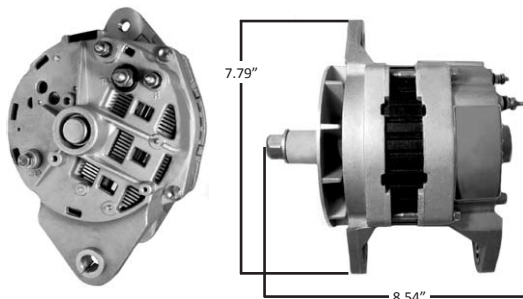


HEAVY DUTY ALTERNATORS

APPLICATION:

DELCO®-TYPE REPLACEMENT ALTERNATORS

WA2112130



21SI™ STYLE / 12V / 130 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie® : A-1358

Wilson® : 90-01-4093

Popular OE: 1117906

Reman® OE: 10459037

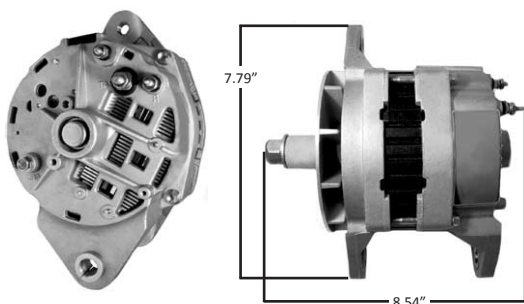
WORLD AMERICAN® CAN USE:

WA2212145

WA2212130

SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

WA2112145N



21SI™ STYLE / 12V / 145 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie® : A-1350

Wilson® : 90-01-4072

Popular OE: 1117916

Reman® OE: 10459051

WORLD AMERICAN® CAN USE:

WA2212145

WA110-555

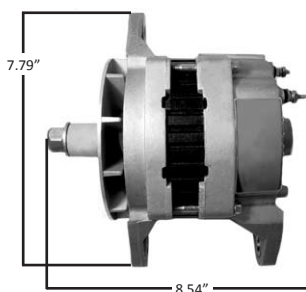
SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.



HEAVY DUTY ALTERNATORS

APPLICATION:
DELCO®-TYPE REPLACEMENT ALTERNATORS

WA212470



21SI™ STYLE / 24V / 70 AMP

INTERCHANGE INFORMATION:

Dixie® A-1351

Wilson®: 90-01-4152

Popular OE: 19010111

WORLD AMERICAN® CAN USE:

SPECIAL NOTES: The only 24-volt unit in either the 21/22 SI™ style series of Delco®-style alternators.



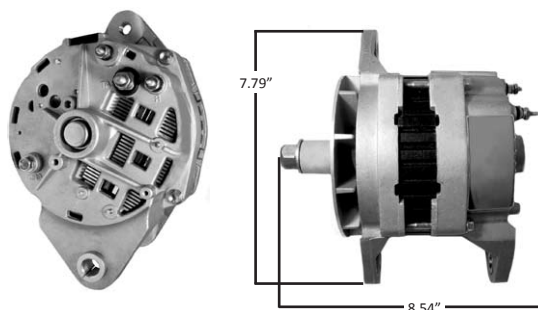


HEAVY DUTY ALTERNATORS

APPLICATION:
DELCO®-TYPE REPLACEMENT ALTERNATORS

WA2212130N

REPLACES: WA19020309



22SI™ STYLE / 12V / 130 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

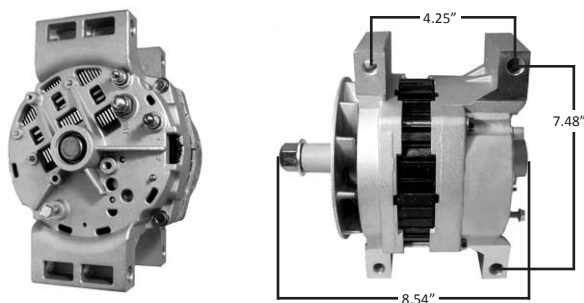
SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

Dixie®: A-1493
Wilson®: 90-01-4295
Popular OE: 19020309
Reman® OE: 10459189

WORLD AMERICAN® CAN USE:
WA2212145
WA2112130

WA2212130PN



22SI™ STYLE / 12V / 130 AMP
Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

Dixie®: A-1620
Wilson®: 90-01-4392
Popular OE: 19020388
Reman® OE: 10459320

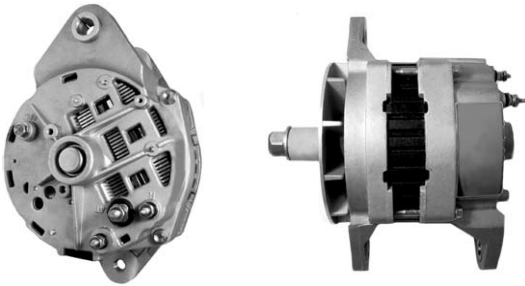
WORLD AMERICAN® CAN USE:
WA2212145P



HEAVY DUTY ALTERNATORS

APPLICATION:
DELCO®-TYPE REPLACEMENT ALTERNATORS

WA2212145N
REPLACES: WA19020303



22SI™ STYLE / 12V / 145 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

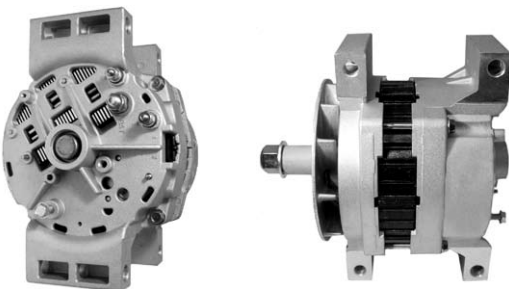
SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

Dixie®: A-1452
Wilson®: 90-01-4270
Popular OE: 19020303
Reman® OE: 10459190

WORLD AMERICAN CAN USE:

WA2212145PN
REPLACES: WA19020389



22SI™ STYLE / 12V / 145 AMP
Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

Dixie®: A-1621
Wilson®: 91-01-4393
Popular OE: 19020389
Reman® OE: 10459321

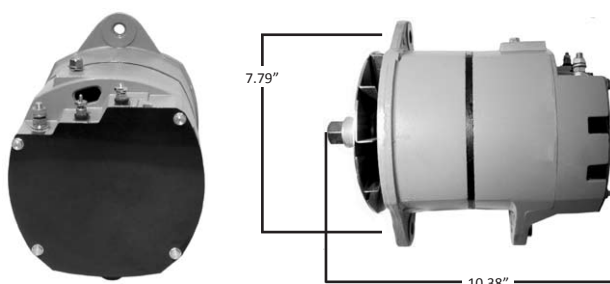
WORLD AMERICAN® CAN USE:



HEAVY DUTY ALTERNATORS

APPLICATION:
DELCO®-TYPE REPLACEMENT ALTERNATORS

WA3312135



33SI™ STYLE / 12V / 135 AMP
"Brushless Type"

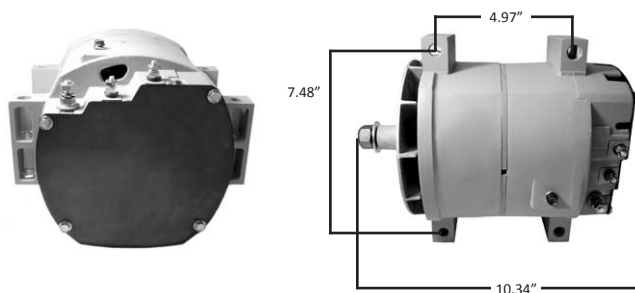
INTERCHANGE INFORMATION:

Dixie®: A -1456
Wilson®: 90-01-4262
Popular OE: 19011155
Reman® OE: 10459141

WORLD AMERICAN® CAN USE:
WA2212145

WA3412135P

REPLACES: WA19011177



34SI™ STYLE / 12V / 135 AMP
Pad Mount
"Brushless Type"

INTERCHANGE INFORMATION:

Dixie®: A -1659
Wilson®: 90-01-4344
Popular OE: 19011177
Reman® OE: 10459278

WORLD AMERICAN® CAN USE:

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

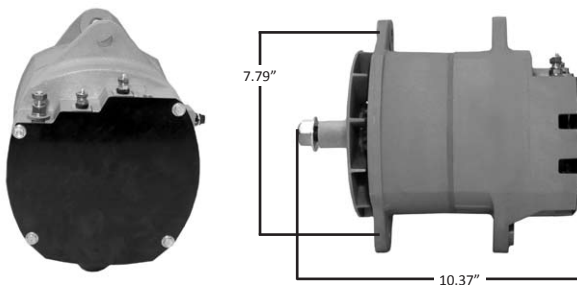
SPECIAL NOTES: Pad mount type units are seen primarily on truck models after 2001. This type of mounting was developed to overcome harsh vibrations caused by big bore diesel engines.



HEAVY DUTY ALTERNATORS

APPLICATION:
DELCO®-TYPE REPLACEMENT ALTERNATORS

WA3412135Q
REPLACES: WA19011167

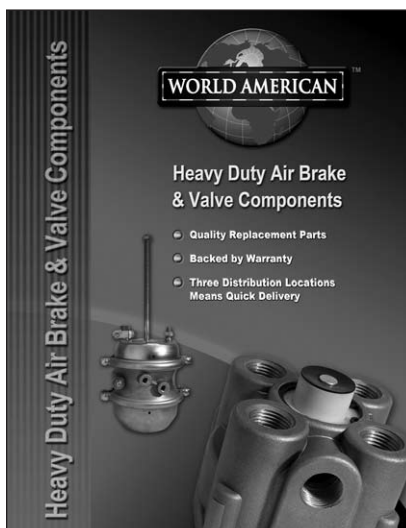


34SI™ STYLE / 12V / 135 AMP
Quad Mount Style
"Brushless Type"

INTERCHANGE INFORMATION:

Dixie®: A-1459
Wilson®: 90-01-4272
Popular OE: 19011167
Reman® OE: 10459206

WORLD AMERICAN® CAN USE:



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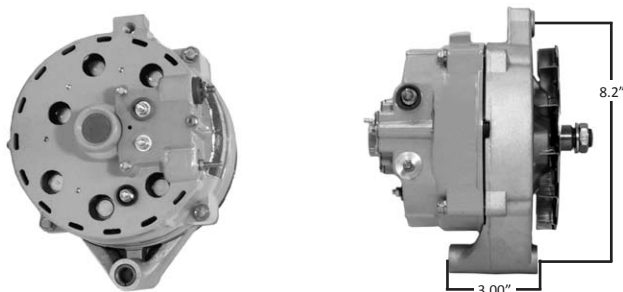
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HEAVY DUTY ALTERNATORS

APPLICATION:
FORD®-TYPE REPLACEMENT ALTERNATORS

WA1290FOR



12V / 90A / FORD TYPE
"BLUE BACK" Style
"Spool Mount"

INTERCHANGE INFORMATION:

Dixie®: A-219
Wilson®: 90-02-5031
Popular OE: E2HF-10346AA/D4HF10300BA

WORLD AMERICAN® CAN USE:

SPECIAL NOTES: Will replace early model "round back" style alternator. External regulator - sold separate



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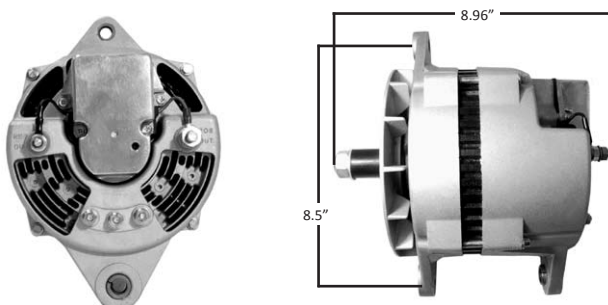
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HEAVY DUTY ALTERNATORS

APPLICATION:
LEECE-NEVILLE®-TYPE REPLACEMENT ALTERNATORS

WA110-555N



LN / 12V / 140 AMP
"Load Handler" Style

GENERAL NOTES: Please refer to GENERAL NOTES #1 AND #3 for this part (page 5)

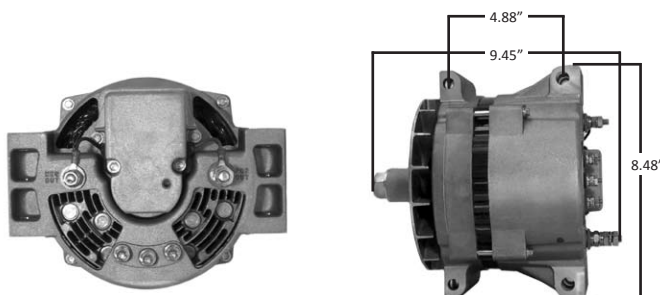
INTERCHANGE INFORMATION:

Dixie®: A-9204
Wilson®: 90-05-9124
Popular OE: 8LHA2070VB
Reman® OE: 110-555HD

WORLD AMERICAN® CAN USE:
WA2812160JB
WA2212145

SPECIAL NOTES: This is the most popular substitute replacement alternator in the marketplace. This unit can be used on almost all standard SAE J-180 mounting configurations.

WA110-555PN



LN / 12V / 140 AMP
Pad Mount - "Load Handler" Style

GENERAL NOTES: Please refer to GENERAL NOTES #2 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie®: A-9384
Wilson®: 90-05-9220
Popular OE: 8LHP2170V
Reman® OE: 110-555P

WORLD AMERICAN® CAN USE:
WA222145P

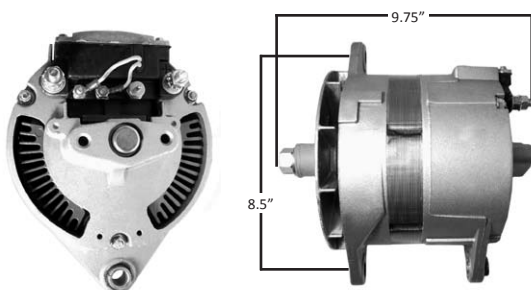
SPECIAL NOTES: Pad mount type units are seen primarily on truck models after 2001. This type of mounting was developed to overcome harsh vibrations caused by big bore diesel engines.



HEAVY DUTY ALTERNATORS

APPLICATION:
LEECE-NEVILLE®-TYPE REPLACEMENT ALTERNATORS

WA2712130JB



27 SERIES STYLE / 12V / 130 AMP JB Type

GENERAL NOTES: Please refer to GENERAL NOTES #1 AND #3 for this part (page 5)

INTERCHANGE INFORMATION:

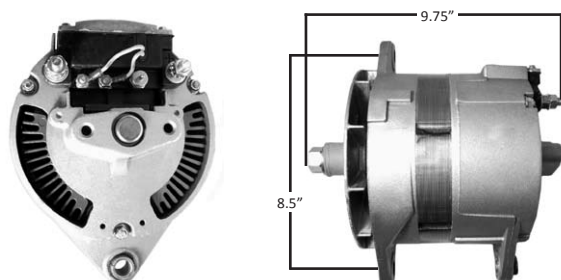
Dixie®: A-771
Wilson®: 90-04-7021
Popular OE: 2670LC
Reman® OE: 2760LCRM

WORLD AMERICAN® CAN USE:

WA110-555
WA2812160JB
WA2212145

SPECIAL NOTES: This L/N type alternator has the biggest frame of all of the most popular high output replacement units. Take care to measure clearances before using as a substitute unit.

WA2812160JB



28 SERIES STYLE / 12V / 160 AMP JB Type

GENERAL NOTES: Please refer to GENERAL NOTES #1 AND #3 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie®: A-772
Wilson®: 90-04-7039
Popular OE: 2800LC
Reman® OE: 2800LCRM

WORLD AMERICAN® CAN USE:

SPECIAL NOTES: This L/N type alternator has the biggest frame of all of the most popular high output replacement units. Take care to measure clearances before using as a substitute unit.



REPLACEMENT COMPONENTS





ELECTRICAL COMPONENTS

REPLACEMENT ELECTRICAL CONNECTORS

4,6, and 7 - Way Sockets



WA15-400

REPLACES: PHILIPS® 15-400

DESCRIPTION: 4-way electrical socket



WA15-430

REPLACES: PHILIPS® 15-430

DESCRIPTION: 4-way electrical plug with spring & cable



WA15-600

REPLACES: PHILIPS® 15-600

DESCRIPTION: 6-way electrical socket



WA15-630

REPLACES: PHILIPS® 15-630

DESCRIPTION: 6-way electrical plug with spring & cable



ELECTRICAL COMPONENTS

REPLACEMENT ELECTRICAL CONNECTORS

4,6, and 7 - Way Sockets (Cont.)



WA15-720

REPLACES: PHILIPS® 15-720

DESCRIPTION: 7-way electrical socket with split pin 2 hole



WA15-730

REPLACES: PHILIPS® 15-730

DESCRIPTION: 7-way electrical plug with spring & cable



WA15-740

REPLACES: PHILIPS® 15-740

DESCRIPTION: 7-way weather boot guard

7-TERMINAL JUNCTION BOX



WA22040

REPLACES: MIDLAND® BE22040

DESCRIPTION: 7-Terminal style strip with grommets and hardware



ELECTRICAL COMPONENTS

REPLACEMENT SOLENOID VALVES

Shift Solenoid Valves



WAKN68237

REPLACES: MIDLAND® KN68237

DESCRIPTION: 24 Volt, Supply Port (1) 1/4" P.T., Delivery Port (1) 1/4" P.T.



288905C91

REPLACES: MIDLAND® KN68230

DESCRIPTION: 24 Volt, Supply Port (1) 1/4" P.T., Delivery Port (1) 1/4" P.T.

Fuel Solenoid Valves

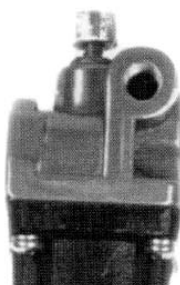


WA6997312

REPLACES: CUMMINS® 3035342

CUMMINS® BM-6997312

DESCRIPTION: 12 Volt



WA6997324

REPLACES: CUMMINS® 3035344

CUMMINS® BM-69973-24

DESCRIPTION: 24 Volt



ELECTRICAL COMPONENTS

REPLACEMENT ELECTRO-PNEUMATIC SWITCHES

Low Pressure Switches

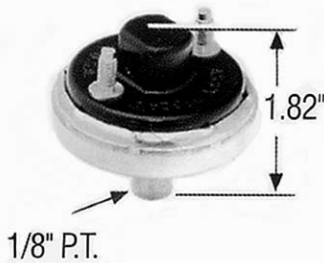


WA13240

REPLACES: MIDLAND® BE13240

MIDLAND® 13240A

DESCRIPTION: 12 Volt or 24 Volt 1/8-27 NPTF thread single pole - Two terminal design actuates at 55 psi circuit normally closed at 0 pressure - BLACK



WA13241

REPLACES: MIDLAND® BE13241

MIDLAND® 13241A

DESCRIPTION: 12 Volt or 24 Volt 1/8-27 NPTF thread single pole - Two terminal design actuates at 66 psi circuit normally closed at 0 pressure - BROWN



WA228750

REPLACES: BENDIX® LP-3™ 228750

DESCRIPTION: 1/4" P.T. Double terminal normally closed (0 psi) opens at 60 psi



WA279416

REPLACES: BENDIX® LP-3™ 279416

DESCRIPTION: 1/4" P.T. Double terminal normally closed (0 psi) opens at 60 psi

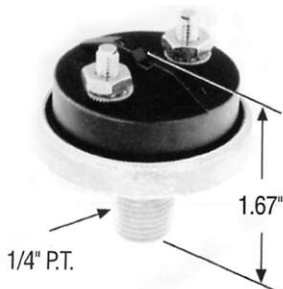


ELECTRICAL COMPONENTS

REPLACEMENT ELECTRO-PNEUMATIC SWITCHES (CONT.)

Stop Light Switches

SERVICE CIRCUIT STOPLIGHT SWITCH



WA13250

REPLACES: MIDLAND BE13250
MIDLAND® 13250

DESCRIPTION: 12 Volt or 24 Volt 1/4-18 NPTF thread single pole - Two terminal design actuates at 3-5 psi circuit normally closed at 0 pressure - One million cycles at 30 amps - BLACK

TRAILER EMERGENCY STOPLIGHT SWITCH



WA13255

REPLACES: MIDLAND BE13255A
MIDLAND® 13255

DESCRIPTION: 12 Volt or 24 Volt 1/8-27 NPTF thread actuates at 55 psi single pole - double throw - three terminal design circuit normally one open/one closed - BROWN

STOPLIGHT SWITCH



WA228600

REPLACES: BENDIX LP 3™ 279416

DESCRIPTION: 1/4" P.T. normally closed (0 psi) closes at 5 psi



ELECTRICAL COMPONENTS

REPLACEMENT ELECTRIC 2 SPEED MOTORS



40635

REPLACES: EATON 40635

DESCRIPTION: Electric motor, early style 1983 & prior



113745R

REPLACES: EATON 113745

DESCRIPTION: Electric shift motor, late style 1984 & later



BEARING KIT CATALOG

This catalog is filled with valuable information of our quality bearing kits; which are associated with manual transmission, transfer case & axle/differential applications. This catalog is a must have for distributors and rebuilders!

Contact your sales representative for a copy, or download a PDF version at:

www.worldamerican.com

www.midwesttruck.com



ELECTRICAL COMPONENTS

QUALITY REPLACEMENT LIGHTING



Amber 2" LED Clr/Mrkr Lamp

REPLACES: TRUCK-LITE® 30250Y
PETERSON® 164A
GROTE® 47113

Red 2" LED Clr/Mrkr Lamp

REPLACES: TRUCK-LITE® 30250R
PETERSON® 164R
GROTE® 47112



Amber 2.5" LED Clr/Mrkr Lamp

REPLACES: TRUCK-LITE® 10250Y
PETERSON® 162A
GROTE® 47123

Red 2.5" LED Clr/Mrkr Lamp

REPLACES: TRUCK-LITE® 10250R
PETERSON® 162R
GROTE® 47122



WA22546R

Red 4" Grommet Mt.10 LED S/T/T Lamp

REPLACES: TRUCK-LITE® 44302R
PETERSON® 417R-3
GROTE® 53252



WA22565R

Red Oval 10 LED S/T/T Lamp

REPLACES: TRUCK-LITE® 60250R
PETERSON® 420R-3
GROTE® 53962



WA10017A

Amber Oval Mid Trir Side Turn

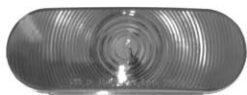
REPLACES: TRUCK-LITE® 60215Y
PETERSON® -----
GROTE® 52193

All lights meet D.O.T. requirements FMVSS 108 and pass rain, temperature and humidity, vibration, shock, aging and salt spray testing as per customer's specifications.



ELECTRICAL COMPONENTS

QUALITY REPLACEMENT LIGHTING



WA10019A

Amber Oval Turn Lamp

REPLACES: TRUCK-LITE® 60202Y
PETERSON® 421A
GROTE® 52893



WA10015R

Red 4" Reflectorized S/T/T Lamp

REPLACES: TRUCK-LITE® 40215R
PETERSON® 427R
GROTE® 52672



WA10227R

Red 4" S/T/T Lamp - Plain

REPLACES: TRUCK-LITE® 4020R
PETERSON® 426R
GROTE® 52772



WA20207A

Amber 2.5" Clr/Mrkr w/Reflector

REPLACES: TRUCK-LITE® 10205Y
PETERSON® 143A
GROTE® 45833

WA20207R

Red 2.5" Clr/Mrkr w/Reflector

REPLACES: TRUCK-LITE® 10205R
PETERSON® 143R
GROTE® 45832



WA20208A

Amber 2" Clr/Mrkr Lamp

REPLACES: TRUCK-LITE® 3020DY
PETERSON® 146A
GROTE® 45823

WA20208R

Red 2" Clr/Mrkr Lamp

REPLACES: TRUCK-LITE® 30200R
PETERSON® 146R
GROTE® 45822

All lights meet D.O.T. requirements FMVSS 108 and pass rain, temperature and humidity, vibration, shock, aging and salt spray testing as per customer's specifications.



ELECTRICAL COMPONENTS

QUALITY REPLACEMENT LIGHTING



WA53874

3 Wire Plug, Strait

REPLACES: TRUCK-LITE® 94926
PETERSON® 431-491
GROTE® 67000



WA538751

2 Wire Plug, Strait

REPLACES: TRUCK-LITE® 94902
PETERSON® 142-49
GROTE® -----



WA538752

2 Wire Plug, 90 Degree

REPLACES: TRUCK-LITE® 94924
PETERSON® -----
GROTE® 67050



WA55206-1

2.5" Open Grommet

REPLACES: TRUCK-LITE® 10700
PETERSON® 143-18
GROTE® 91400

WA55208

2" Open Grommet

REPLACES: TRUCK-LITE® 30700
PETERSON® 146-18
GROTE® 92120

WA55227

4" Open Grommet

REPLACES: TRUCK-LITE® 40700
PETERSON® 426-18
GROTE® 91740

All lights meet D.O.T. requirements FMVSS 108 and pass rain, temperature and humidity, vibration, shock, aging and salt spray testing as per customer's specifications.

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tive battery post! Failure to
result in s erious personal

ling a brand new alternator please
s in the following sequence.

GE ALTERNATOR ATIONS ONLY

to the post marked with the **Red**
t the male wire harness plug into the
r on the rear or side of the alternator.
ctrical connections to assure proper
NOT OVER TORQUE!! Broken or
will cause premature failure and void

securing the unit to the engine. Make
torqued properly.
cable connection and post; reconnect
e post on the battery and tighten.



his unit without first disconnecting
ground post may cause premature
it to fail. In these cases, warranty



INSTALLATION & WARRANTY



INSTALLATION GUIDE

APPLICATION:
ALL STARTERS

Note!



Stop!!

*Before installing...*this electrical unit you must disconnect the **black (ground)** cable from the negative battery post! Failure to do so could result in serious personal injury.

For best results when installing a brand new starter please make the connections in the following sequence.

1. Connect **ground** cable to the post marked with the **Black** ground tab indicator.
2. Connect **power** cable to the post marked with the **Red** power tab indicator.
3. Connect the **key switch** cable to the post marked with the **Green** tab indicator.
4. Double Check all electrical connections to assure proper conductivity. **DO NOT OVER TORQUE!!** Broken or damaged connections will cause premature failure and void warranty.
5. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.
6. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten.



Important note...Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. **In these cases warranty will be voided.**

This installation guide will be included in ALL starter motor shipments.



INSTALLATION GUIDE

APPLICATION:
MID-RANGE ALTERNATORS

Note!



Stop!!

Before installing...this electrical unit you must disconnect the **black (ground)** cable from the negative battery post! Failure to do so could result in serious personal injury.

For best results when installing a brand new alternator please make the connections in the following sequence.

MID-RANGE® ALTERNATOR APPLICATIONS ONLY

1. Connect **power** cable to the post marked with the **Red** power tab indicator.
2. If so equipped, connect the male wire harness plug into the receptacle located either on the rear or side of the alternator.
3. Double check all electrical connections to assure proper conductivity. **DO NOT OVER TORQUE!!** Broken or damaged connections will cause premature failure and void warranty.
4. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.
5. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten.



Important note...Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. **In these cases warranty will be voided.**

This installation guide will be included in ALL mid-range alternator shipments.



INSTALLATION GUIDE

APPLICATION:
DELCO®- TYPE ALTERNATORS

Note!



Stop!!

Before installing...this electrical unit you must disconnect the **black (ground)** cable from the negative battery post! Failure to do so could result in serious personal injury.

For best results when installing a brand new alternator please make the connections in the following sequence.

DELCO®-STYLE ALTERNATORS ONLY

1. Connect power cable to the post marked with the **Red** power tab indicator. On some units this post could be marked BAT or POS.
2. Delco® type alternators are generally case grounded through the mounting bracket to the frame or engine. ➡ *If replacing a Leece Neville® type, reuse the existing ground strap and attach to the Delco® unit where indicated on their housing.*
3. If so equipped, connect the cable for the relay switch, indicator light or tachometer to the post with the **Blue** tab indicator.
4. Double Check all electrical connections to assure proper conductivity. **DO NOT OVER TORQUE!!** Broken or damaged connections will cause premature failure and void warranty.
5. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.
6. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten.



Important note...Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. In these cases warranty will be voided.

This installation guide will be included in ALL Delco®-type alternator shipments.



Stop!!

Note!



*Before installing...this electrical unit you must disconnect the **black (ground)** cable from the negative battery post! Failure to do so could result in serious personal injury.*

For best results when installing a brand new alternator please make the connections in the following sequence.

LEECE-NEVILLE® ALTERNATOR ONLY

1. Connect **power** cable to the post marked with the **Red** power tab indicator.
2. Connect the **black** tab indicator. If replacing a Delco® type with this unit, you must make sure to place a ground strap to the unit as indicated.
3. If so equipped, connect the cable for the relay switch, indicator light or tachometer to the post with the **Blue** tab indicator.
4. Double check all electrical connections to assure proper conductivity. **DO NOT OVER TORQUE!!** Broken or damaged connections will cause premature failure and void warranty.
5. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.
6. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten.



Important note...Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. In these cases warranty will be voided.

This installation guide will be included in ALL Leece-Neville®-type alternator shipments.



WARRANTY

MIDWEST TRUCK & AUTO PARTS, INC.™ warrants that all new MIDWEST TRUCK & AUTO PARTS, INC.™, except as otherwise provided herein, will be free from defects in material and workmanship for the first 6 months or 50,000 miles, whichever occurs first, with the sole exception of its heavy duty alternators and starters, the warranty for which shall extend for the first year, with no mileage limit. THIS WARRANTY WILL NOT APPLY IF ANY PART HAS BEEN MODIFIED, DAMAGED OR IS DEFECTIVE AS A RESULT OF ANY ACCIDENT, MISUSE, USE IN COMPETITIVE APPLICATIONS, IMPROPER INSTALLATION, NEGLIGENCE, REPAIR OR ALTERATION.

COMPETITION PARTS ARE SOLD "AS IS", WITHOUT ANY WARRANTY WHATSOEVER. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF SUCH PARTS IS WITH THE BUYER. SHOULD SUCH PARTS PROVE DEFECTIVE FOLLOWING THEIR PURCHASE, THE BUYER, AND NOT THE MANUFACTURER, DISTRIBUTOR OR RETAILER, ASSUMES THE ENTIRE COST OF ALL NECESSARY SERVICING OR REPAIR.

The MIDWEST TRUCK & AUTO PARTS, INC.™ parts warranty is voided if the part is used for competition or if it has been modified.

To make a warranty claim on parts used in non-competitive applications, distributors should contact MIDWEST TRUCK & AUTO PARTS, INC.™ distributor for a Return Goods Authorization (RGA) Number. No returns will be accepted without an RGA Number. All parts should be returned to MIDWEST TRUCK & AUTO PARTS, INC.™, freight prepaid. MIDWEST TRUCK & AUTO PARTS, INC.™ will issue a credit equal to the original purchase price for all defective parts covered by this warranty. In the event that a warranty claim cannot be substantiated by MIDWEST TRUCK & AUTO PARTS, INC.™, the parts will be returned to the customer, freight collect.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND IN NO EVENT WILL MIDWEST BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, ANY LABOR COSTS.



WARRANTY CLAIM FORM

ELECTRICAL UNIT

Please send a copy of this document in the **RETURN BOX WITH THE UNIT.**
Failure to do so may cause credit for the return to be delayed or not issued!

Date: _____

RGA Number: _____ Invoice -or- Sales Order Number: _____

CONTACT INFORMATION - PLEASE PRINT

Contact Name: _____ Distributor: _____

Street Address: _____ City/State/Zip: _____

Phone: _____ Ext: _____ Fax: _____

Email Address: _____

UNIT INFORMATION

Type of Unit: ☒ ALTERNATOR ☐ STARTER

Part Number: _____ Date Installed: _____

Type of Engine: ☒ DIESEL ☒ GASOLINE ☐ NATURAL GAS

Type of Vehicle: ☒ TRUCK ☒ CONSTRUCTION ☐ AG ☐ BUS _____

REASON FOR RETURN - Please Select From the Options Below

☐ STARTER

_____ Will Not Fit Engine _____ Will Not Start _____ Broken Studs or Contacts

_____ Stays Engaged _____ Burned Out

_____ Other: _____

GENERAL NOTE:

Starting motors claimed as warranty that fail due to a low voltage condition in the batteries will not be honored.

☐ ALTERNATOR

_____ Failed on Turn _____ Overcharges _____ Fails to Charge Once Installed

_____ Burned Out _____ Broken Studs or Contacts

_____ Other: _____

GENERAL NOTE:

Alternators claimed as warranty that fail due to cross wiring (causing improper polarization) will not be honored.

Please send a copy of this document in the **RETURN BOX WITH THE UNIT.**
Failure to do so may cause credit for the return to be delayed or not issued!

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Notes